

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

C Number:	MG96005
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 16	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 51 HISTO: 21320300016
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	Bone, Femur
* Esophagus	* Heart	* Nose	* Parathyroid Gland
* Pituitary Gland	* Trachea		
MISSING			
Coagulating Gland	* Intestine Large, Rectum	* Lymph Node, Mandibular	* Preputial Gland
* Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
* Seminal Vesicle	* Thymus	* Urinary Bladder	
AUTO PRECLUDES DIAG.			
* Bone Marrow	* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland			
OBSERVATIONS			
* Epididymis		Hypospermia	Marked
* Testes			
Note: PATHOLOGIST NOTED: WET TISSUE CHECKED, NO RETE TESTES LOCATED			
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 17	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 50 HISTO: 21320300017
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	Coagulating Gland
Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Rete Testes	* Salivary Glands	Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Lymph Node, Mesenteric	Preputial Gland		
AUTO PRECLUDES DIAG.			
* Intestine Small, Ileum	* Intestine Small, Jejunum		
INSUFFICIENT TISSUE			
* Mammary Gland			
OBSERVATIONS			
* Bone Marrow		Depletion Cellular	Marked
* Lym Node Mesen			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
* Lymph Node, Mandibular		Depletion Lymphoid	Marked
Preputial GI			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Sem Ves			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
* Spleen		Depletion Lymphoid	Marked
* Thymus		Depletion Lymphoid	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
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Date Report Requested: 10/22/2014
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First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 19	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 79 HISTO: 21320300019
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
Bone, Femur	* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum
Coagulating Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	* Salivary Glands	Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
Preputial Gland			
OBSERVATIONS			
Epididymis		Hypospermia	Mild
* Liver		Congestion	Moderate
		Necrosis	Moderate
* Lung		Congestion	Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas	Acinar Cell	Degeneration	Minimal
Preputial GI			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Rete Testes		Dilatation	Mild
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 20

TRT#: 20

SEX: Male

DAY ON TEST: 84

DOSE: F3 5PPM TO CTL

DISP: Moribund

HISTO: 21320300020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Coagulating Gland	Epididymis	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Pancreas	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Brain	Brain Stem	Autolysis	Mild
	Cerebellum	Autolysis	Mild
	Cerebrum	Autolysis	Mild
Kidney		Nephropathy	Chronic, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Nose		Inflammation	Suppurative, Mild
Parathyroid Gl			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Preputial Gland		Inflammation	Suppurative, Moderate
Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 10/22/2014
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First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 38	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 206 HISTO: 21320300038
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate, Dorsal Lobe	Rete Testes
Salivary Glands	Skin	Testes	
AUTO PRECLUDES DIAG.			
Coagulating Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lung	Lymph Node, Mesenteric	Mammary Gland	Pancreas
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Urinary Bladder		
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Liver			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Note: TGL # 01 - NO SECTION TAKEN			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Thymus		Hemorrhage	Moderate
Trachea	Epithelium	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 39	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Moribund	DAY ON TEST: 213 HISTO: 21320300039
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Pancreas	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Bone Marrow		Lymphoma Malignant	
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-5]			
Lung		Lymphoma Malignant	
Lymph Node	Thoracic	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Parathyroid Gland		Hyperplasia	Minimal
Preputial Gland		Inflammation	Suppurative, Marked
		Necrosis	Moderate
Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-5]			
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Liver Lymphoma Malignant		

* PROTOCOL REQUIRED TISSUE

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Test Compound: Endocrine disruptor (Genistein)
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First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 41	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 227 HISTO: 21320300041
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thymus	Trachea	Urinary Bladder	
MISSING			
Skin			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Skin			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Note: PATHOLOGIST NOTED: MISSING AT EMBEDDING			
Spleen		Pigmentation	Minimal
Thyroid Gland		Cyst	Squamous
		Infiltration Cellular	Lymphocyte, Minimal
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 42	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 267 HISTO: 21320300042
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
INSUFFICIENT TISSUE			
Mammary Gland	Thymus		
OBSERVATIONS			
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Pigmentation	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 52	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 275 HISTO: 21320300052
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Pituitary Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Mineralization	Minimal
		Vacuolization Cytoplasmic	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-13]			
Nose		Hemorrhage	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Neurofibrosarcoma	
[Neurofibrosarcoma TGLS = 2-12]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Minimal
PRIMARY CAUSE OF DEATH	- Salivary Glands Neurofibrosarcoma		

* PROTOCOL REQUIRED TISSUE

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Date Report Requested: 10/22/2014
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First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 53	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 296 HISTO: 21320300053
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Bone Marrow	Bone, Femur	Esophagus
Mammary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Skin	Testes	Urinary Bladder	
MISSING			
Parathyroid Gland			
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Intestine Large, Colon	Intestine Small, Duodenum	Kidney	Lung
Nose	Pituitary Gland	Preputial Gland	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	
OBSERVATIONS			
Blood Vessel		Polyarteritis	Marked
		Thrombosis	Marked
[Thrombosis TGLS = 4-1.1]			
Coagulating Gland	Adventitia	Polyarteritis	Moderate
Epididymis	Adventitia	Polyarteritis	Mild
Heart		Polyarteritis	Marked
Intestine Large, Cecum		Polyarteritis	Marked
Intestine Small, Ileum		Polyarteritis	Marked
Intestine Small, Jejunum		Polyarteritis	Marked
Islets, Pancreatic		Hyperplasia	Minimal
Liver		Polyarteritis	Marked
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Autolysis	Moderate
		Degeneration	Cystic, Marked
		Polyarteritis	Marked
[Degeneration TGLS = 3-9]			
[Polyarteritis TGLS = 3-9]			
Pancreas	Acinar Cell	Degeneration	Mild
		Polyarteritis	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 53	TRT#: 9	SEX: Male	DAY ON TEST: 296
	DOSE: F1 5PPM	DISP: Natural Death	HISTO: 21320300053
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 2-5]			
[Polyarteritis TGLS = 2-5]			
Prostate, Dorsal Lobe		Polyarteritis	Marked
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 1-5]			
Thymus	Adventitia	Polyarteritis	Moderate
[Polyarteritis TGLS = 5-1]			
Thyroid Gland		Polyarteritis	Moderate
PRIMARY CAUSE OF DEATH	- Blood Vessel Thrombosis		

* PROTOCOL REQUIRED TISSUE

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Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 54	TRT#: 9	SEX: Male	DAY ON TEST: 303
	DOSE: F1 5PPM	DISP: Moribund	HISTO: 21320300054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Lung	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Bone Marrow		Lymphoma Malignant	
Islets, Pancreatic		Hyperplasia	Mild
Liver		Lymphoma Malignant	
Lymph Node	Axillary	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-13.1]			
[Lymphoma Malignant TGLS = 1-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
		Lymphoma Malignant	
Lymph Node, Mesenteric		Lymphoma Malignant	
Mammary Gland		Degeneration	Moderate
Note: TGL # 02 - NOTED GROSSLY AS MAMMARY GLAND WAS LYMPH NODE, AXILLARY			
Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS LYMPH NODE, INGUINAL			
Nose		Lymphoma Malignant	
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 54	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Moribund	DAY ON TEST: 303 HISTO: 21320300054
ORGAN AND ACCOUNTABLE SITE STATUS			
		Lymphoma Malignant Pigmentation	Mild
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Rat/CD

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Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 55	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 260 HISTO: 21320300055
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	* Epididymis	* Heart
Rete Testes	* Skin		
AUTO PRECLUDES DIAG.			
* Adrenal Cortex	* Adrenal Medulla	* Brain - Brain Stem	* Brain - Cerebellum
* Brain - Cerebrum	Coagulating Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
INSUFFICIENT TISSUE			
* Parathyroid Gland			
OBSERVATIONS			
* Bone Marrow		Autolysis Leukemia	Marked
* Liver		Autolysis Leukemia	Marked
[Leukemia TGLS = 3-5]			
* Lym Node Mesen			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node	Inguinal Inguinal	Autolysis Leukemia	Marked
[Leukemia TGLS = 4-13]			
* Lymph Node, Mandibular		Autolysis Leukemia	Marked
* Preputial Gland		Autolysis Inflammation	Moderate Suppurative, Marked
Prostate, Dorsal Lobe		Autolysis Inflammation	Marked Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 55	TRT#: 19	SEX: Male	DAY ON TEST: 260
	DOSE: F3 0 PPM	DISP: Natural Death	HISTO: 21320300055
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Autolysis	Marked
		Inflammation	Suppurative, Marked
* Spleen		Autolysis	Marked
		Leukemia	
[Leukemia TGLS = 1-5.1]			
* Testes		Autolysis	Marked
Note: PATHOLOGIST NOTED: NORMAL SECTION OF TESTES WAS AUTOLYSIS PRECLUDES DIAGNOSIS			
* Thyroid Gland		Autolysis	Marked
		Cyst	Squamous
PRIMARY CAUSE OF DEATH	- Liver Leukemia		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 59	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 295 HISTO: 21320300059
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
Bone, Femur	* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum
Epididymis	* Esophagus	* Liver	* Nose
* Parathyroid Gland	* Pituitary Gland	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	* Salivary Glands	* Skin	
AUTO PRECLUDES DIAG.			
Coagulating Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Mammary Gland	Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Autolysis	Moderate
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Autolysis	Mild
		Inflammation	Granulomatous, Minimal
* Pancreas		Autolysis	Moderate
Prostate, Dorsal Lobe		Polyarteritis	Mild
* Spleen		Autolysis	Mild
		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 61	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 350 HISTO: 21320300061
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Bone, Femur	Coagulating Gland	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Parathyroid Gland	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
AUTO PRECLUDES DIAG.			
Intestine Small, Ileum	Intestine Small, Jejunum		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
Blood Vessel	Adventitia	Lymphoma Malignant	
Bone Marrow		Lymphoma Malignant	
Brain	Cerebrum	Hydrocephalus	Mild
	Brain Stem	Lymphoma Malignant	
	Cerebellum, Meninges	Lymphoma Malignant	
	Cerebrum, Meninges	Lymphoma Malignant	
[Hydrocephalus TGLS = 3-8]			
Islets, Pancreatic		Lymphoma Malignant	
Kidney		Lymphoma Malignant	
		Nephropathy	Chronic, Marked
[Lymphoma Malignant TGLS = 1-2]			
[Nephropathy TGLS = 1-2]			
Liver		Lymphoma Malignant	
Lung		Lymphoma Malignant	
Lymph Node, Mandibular		Lymphoma Malignant	
Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-9]			
Mammary Gland		Infiltration Cellular	Mast Cell, Mild
Nose		Lymphoma Malignant	
Pancreas		Lymphoma Malignant	
Pituitary Gland		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 61	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 350 HISTO: 21320300061
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Degeneration	Moderate
		Inflammation	Suppurative, Marked
		Lymphoma Malignant	
Prostate, Ventral Lobe		Inflammation	Suppurative, Marked
		Lymphoma Malignant	
Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 2-6.1]			
Spleen		Lymphoma Malignant	
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-1]			
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 63	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 359 HISTO: 21320300063
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland
Epididymis	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Lymph Node, Mesenteric	Mammary Gland	Nose	Pancreas
Pituitary Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Brain	Cerebrum	Granular Cell Tumor Malignant	
[Granular Cell Tumor Malignant TGLS = 1-8]			
Esophagus		Hyperkeratosis	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Tension Lipidosis	Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH	- Brain Cerebrum Granular Cell Tumor Malignant
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 64	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 362 HISTO: 21320300064
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Parathyroid Gland	Pituitary Gland
Rete Testes	Salivary Glands	Skin	Stomach, Forestomach
Trachea			
MISSING			
Mammary Gland			
AUTO PRECLUDES DIAG.			
Blood Vessel	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Stomach, Glandular
Thyroid Gland	Urinary Bladder		
OBSERVATIONS			
Bone Marrow	Myeloid Cell	Hyperplasia	Marked
Coagulating Gland		Adenocarcinoma	Metastatic (Prostate)
Epididymis		Degeneration	Marked
		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-6.1]			
Esophagus		Hyperkeratosis	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Autolysis	Marked
	Pelvis	Dilatation	Moderate
	Pelvis	Hyperplasia	Moderate
	Pelvis	Inflammation	Suppurative, Moderate
[Dilatation TGLS = 1-2+2.1]			
Liver		Autolysis	Moderate
Mammary Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pancreas		Autolysis	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 64	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 362 HISTO: 21320300064
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Adenocarcinoma	
Prostate, Ventral Lobe		Adenocarcinoma	
Seminal Vesicle		Adenocarcinoma	Metastatic (Prostate)
		Inflammation	Suppurative, Marked
[Adenocarcinoma TGLS = 3-6.1]			
[Inflammation TGLS = 3-6.1]			
Spleen		Autolysis	Mild
		Pigmentation	Marked
Testes		Autolysis	Mild
	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
		Autolysis	Marked
PRIMARY CAUSE OF DEATH	- Prostate, Dorsal Lobe	Adenocarcinoma	
CONTRIBUTORY CAUSE OF DEATH	- Prostate;Ventral Lobe	Adenocarcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 65	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 364 HISTO: 21320300065
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Heart	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Skin	Testes		
MISSING			
Thymus			
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Lung	Lymph Node, Mesenteric	Nose
Pancreas	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Islets, Pancreatic		Hyperplasia	Mild
Liver		Autolysis	Mild
Lymph Node, Mandibular		Autolysis	Moderate
		Infiltration Cellular	Plasma Cell, Marked
Spleen		Autolysis	Mild
		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Thyroid Gland		Autolysis	Mild
		Cyst	Squamous
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 75	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 57 HISTO: 21320300075
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Coagulating Gland	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	
MISSING			
Adrenal Medulla			
OBSERVATIONS			
Brain	Cerebrum, Meninges	Congestion	Moderate
	Cerebrum, Meninges	Hemorrhage	Moderate
	Cerebellum	Hydrocephalus	Marked
	Cerebrum	Hydrocephalus	Marked
[Congestion TGLS = 1-8]			
[Hemorrhage TGLS = 1-8]			
[Hydrocephalus TGLS = 1-8]			
Epididymis		Hypospermia	Marked
Kidney	Renal Tubule	Dilatation	Mild
		Inflammation	Chronic, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
PRIMARY CAUSE OF DEATH			
-			
CONTRIBUTORY CAUSE OF DEATH			
- Brain Cerebrum Meninges Congestion;Brain Cerebrum Meninges Hemorrhage;Brain Cerebrum Hydrocephalus			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 89	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 338 HISTO: 21320300089
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex Bone, Femur Coagulating Gland * Lymph Node, Mandibular * Pancreas Rete Testes * Stomach, Forestomach * Urinary Bladder	* Adrenal Medulla * Brain - Brain Stem * Epididymis * Lymph Node, Mesenteric * Parathyroid Gland * Salivary Glands * Testes	Blood Vessel * Brain - Cerebellum * Esophagus * Mammary Gland * Pituitary Gland * Skin * Thyroid Gland	* Bone Marrow * Brain - Cerebrum * Lung * Nose Prostate, Dorsal Lobe * Spleen * Trachea
AUTO PRECLUDES DIAG. * Intestine Large, Cecum * Intestine Small, Jejunum	* Intestine Large, Colon * Seminal Vesicle	* Intestine Small, Duodenum * Stomach, Glandular	* Intestine Small, Ileum
OBSERVATIONS			
* Heart * Islets, Pancreatic * Kidney	Cortex	Cardiomyopathy Hyperplasia Autolysis	Minimal Minimal Mild
* Liver		Cyst Autolysis Vacuolization Cytoplasmic	Minimal Mild
* Preputial Gland Prostate, Ventral Lobe * Thymus	Parenchym Cell	Degeneration Infiltration Cellular Inflammation Atrophy	Minimal Lymphocyte, Minimal Suppurative, Minimal Mild
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 92	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 406 HISTO: 21320300092
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Mammary Gland	Pancreas
Pituitary Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		
INSUFFICIENT TISSUE			
Bone, Femur			
OBSERVATIONS			
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Mast Cell, Mild
Nose		Foreign Body	
		Inflammation	Suppurative, Minimal
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Moderate
		Hyperplasia	Marked
Spleen		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
Thymus		Atrophy	Moderate
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 99	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 429 HISTO: 21320300099
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Coagulating Gland	Epididymis	Rete Testes
Skin	Stomach, Forestomach	Stomach, Glandular	
AUTO PRECLUDES DIAG.			
Intestine Large, Cecum	Intestine Small, Duodenum	Intestine Small, Jejunum	Thyroid Gland
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Cortex		Lymphoma Malignant	
Bone Marrow		Autolysis	Marked
		Lymphoma Malignant	
Brain	Cerebrum	Lymphoma Malignant	
Esophagus		Hyperkeratosis	Mild
Heart		Lymphoma Malignant	
[Lymphoma Malignant TGSL = 10-1]			
Intestine Large, Colon		Lymphoma Malignant	
[Lymphoma Malignant TGSL = 13-9]			
Intestine Small, Ileum		Lymphoma Malignant	
[Lymphoma Malignant TGSL = 12-9]			
Islets, Pancreatic		Lymphoma Malignant	
[Lymphoma Malignant TGSL = 4-5]			
Kidney		Lymphoma Malignant	
[Lymphoma Malignant TGSL = 7-2+2.1]			
Liver		Lymphoma Malignant	
[Lymphoma Malignant TGSL = 1-5.1]			
Lung		Lymphoma Malignant	
[Lymphoma Malignant TGSL = 9-10]			
Lymph Node	Lumbar	Lymphoma Malignant	
[Lymphoma Malignant TGSL = 6-13]			
Lymph Node, Mandibular		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 99	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 429 HISTO: 21320300099
ORGAN AND ACCOUNTABLE SITE STATUS			
[Lymphoma Malignant TGLS = 8-12]			
Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-9]			
Nose		Lymphoma Malignant	
Pancreas		Lymphoma Malignant	
Note: TGL # 04 - Involves the Pancreas and Islets Panc			
[Lymphoma Malignant TGLS = 4-5]			
Parathyroid Gland		Hyperplasia	Mild
		Lymphoma Malignant	
Pituitary Gland		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 11-3]			
Preputial Gland		Inflammation	Suppurative, Mild
		Lymphoma Malignant	
Prostate, Dorsal Lobe		Lymphoma Malignant	
Prostate, Ventral Lobe		Lymphoma Malignant	
Salivary Glands		Lymphoma Malignant	
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 14-6.1]			
Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-5]			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Lymphoma Malignant	
Trachea		Lymphoma Malignant	
Urinary Bladder		Dilatation	Marked
[Dilatation TGLS = 3-2.1]			
PRIMARY CAUSE OF DEATH	- Spleen Lymphoma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 100

TRT#: 8

SEX: Male

DAY ON TEST: 433

DOSE: F1 0PPM

DISP: Natural Death

HISTO: 21320300100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel

Bone, Femur

Esophagus

Heart

Parathyroid Gland

Rete Testes

Skin

Testes

MISSING

Pituitary Gland

AUTO PRECLUDES DIAG.

Adrenal Cortex

Adrenal Medulla

Bone Marrow

Brain - Brain Stem

Brain - Cerebellum

Brain - Cerebrum

Coagulating Gland

Epididymis

Intestine Large, Cecum

Intestine Large, Colon

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum

Islets, Pancreatic

Kidney

Liver

Lung

Lymph Node, Mandibular

Lymph Node, Mesenteric

Mammary Gland

Nose

Pancreas

Preputial Gland

Prostate

Prostate, Dorsal Lobe

Prostate, Ventral Lobe

Salivary Glands

Seminal Vesicle

Spleen

Stomach, Forestomach

Stomach, Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Sem Ves

Note: TGL # 01 - NO MICROSCOPIC CORRELATE

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 103	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 436 HISTO: 21320300103
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Epididymis	Esophagus	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Parathyroid Gland
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Urinary Bladder
MISSING			
Intestine Large, Cecum			
AUTO PRECLUDES DIAG.			
Trachea			
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Cortex		Lymphoma Malignant	
		Vacuolization Cytoplasmic	Minimal
Bone Marrow		Autolysis	Marked
		Lymphoma Malignant	
Bone, Femur		Hyperostosis	Mild
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 9-6.2]			
Heart		Lymphoma Malignant	
Islets, Pancreatic		Lymphoma Malignant	
Kidney		Accumulation, Hyaline Droplet	Marked
		Lymphoma Malignant	
		Nephropathy	Chronic, Marked
[Lymphoma Malignant TGLS = 6,7-2]			
Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-5.1]			
Lung		Lymphoma Malignant	
Lymph Node	Inguinal	Lymphoma Malignant	
	Thoracic	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 103	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 436 HISTO: 21320300103
ORGAN AND ACCOUNTABLE SITE STATUS			
[Lymphoma Malignant TGLS = 4-13.1]			
[Lymphoma Malignant TGLS = 3-13]			
Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 10-12]			
Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-9.1]			
Nose		Lymphoma Malignant	
Pancreas		Lymphoma Malignant	
Pituitary Gland		Lymphoma Malignant	
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Degeneration	Moderate
Rete Testes		Dilatation	Mild
Salivary Glands		Lymphoma Malignant	
Skin		Abscess	Marked
	Epidermis	Ulcer	Marked
[Abscess TGLS = 5-5.2]			
Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-5]			
Thymus		Lymphoma Malignant	
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 104	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 402 HISTO: 21320300104
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Rete Testes	* Testes	
MISSING			
* Islets, Pancreatic	* Pancreas		
AUTO PRECLUDES DIAG.			
Bone, Femur	Coagulating Gland	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular			
INSUFFICIENT TISSUE			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Lymphoma Malignant	
* Adrenal Medulla		Lymphoma Malignant	
* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
		Lymphoma Malignant	
* Brain	Brain Stem	Lymphoma Malignant	
	Cerebellum	Lymphoma Malignant	
	Cerebrum	Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-2+2.1]			
* Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-5.1]			
* Lung		Lymphoma Malignant	
Lymph Node	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-13]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-12]			
* Lymph Node, Mesenteric		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 104	TRT#: 19	SEX: Male	DAY ON TEST: 402
	DOSE: F3 0 PPM	DISP: Natural Death	HISTO: 21320300104
ORGAN AND ACCOUNTABLE SITE STATUS			
[Lymphoma Malignant TGLS = 6-9]			
* Nose		Lymphoma Malignant	
* Parathyroid Gland		Lymphoma Malignant	
* Pituitary Gland		Lymphoma Malignant	
* Preputial Gland		Inflammation	Suppurative, Marked
		Lymphoma Malignant	
Prostate, Dorsal Lobe		Lymphoma Malignant	
Prostate, Ventral Lobe		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation Granulocytic	Marked
		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-5]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Trachea		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 105	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 449 HISTO: 21320300105
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Heart	Parathyroid Gland
Rete Testes	Salivary Glands		
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Pancreas	Pituitary Gland	Preputial Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Kidney			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lung			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Skin		Cyst Epithelial Inclusion	
		Sarcoma	
[Cyst Epithelial Inclusion TGLS = 4-5.2]			
[Sarcoma TGLS = 3-5.1]			
Spleen			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Testes	Seminif Tub	Degeneration	Mild
PRIMARY CAUSE OF DEATH	- Skin Sarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 115	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Moribund	DAY ON TEST: 453 HISTO: 21320300115
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Liver
Lymph Node, Mesenteric	Mammary Gland	Nose	Pituitary Gland
Preputial Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
MISSING			
Rete Testes			
OBSERVATIONS			
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Capsule	Fibrosis	Mild
		Nephropathy	Chronic, Minimal
Lung		Metaplasia	Osseous, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Mild
Skin		Sarcoma	
[Sarcoma TGLS = 1-5.1]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes			
Note: PATHOLOGIST NOTED: WET TISSUE CHECKED, NO RETE TESTES LOCATED			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Skin Sarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 116	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 456 HISTO: 21320300116
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Heart	Parathyroid Gland
Rete Testes	Skin		
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Pancreas	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Brain			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Kidney			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lym Node Mesen			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Pituitary Gland	Pars Distalis	Adenoma	
		Autolysis	Marked
[Adenoma TGLS = 1-3]			
Prostate, Dorsal Lobe		Autolysis	Moderate
		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Autolysis	Marked
Testes		Autolysis	Marked
Note: PATHOLOGIST NOTED: NORMAL SECTION OF TESTES WAS AUTOLYSIS PRECLUDES DIAGNOSIS			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 119	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 475 HISTO: 21320300119
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Skin	
MISSING			
Parathyroid Gland	Rete Testes		
AUTO PRECLUDES DIAG.			
Adrenal Medulla	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Pancreas	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Coagulat GI			
Note: TGL # 13 - NO MICROSCOPIC CORRELATE			
Heart		Autolysis	Marked
		Leukemia Granulocytic	
		Leukemia Granulocytic	
Kidney			
[Leukemia Granulocytic TGLS = 5-2.1]			
Liver		Autolysis	Marked
		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 7-5]			
Lung		Autolysis	Marked
		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 6-10]			
Lymph Node	Deep Cervical	Autolysis	Marked
	Lumbar	Autolysis	Marked
	Renal	Autolysis	Marked
	Deep Cervical	Leukemia Granulocytic	
	Lumbar	Leukemia Granulocytic	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 119	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 475 HISTO: 21320300119
ORGAN AND ACCOUNTABLE SITE STATUS			
Renal		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 4-13.2]			
[Leukemia Granulocytic TGLS = 2-13]			
[Leukemia Granulocytic TGLS = 3-13.1]			
Lymph Node, Mandibular		Autolysis	Marked
		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 10-12]			
Lymph Node, Mesenteric		Leukemia Granulocytic	
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Dilatation TGLS = 8-6.1]			
[Inflammation TGLS = 8-6.1]			
Saliv Glands			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Sem Ves			
Note: TGL # 12 - NO MICROSCOPIC CORRELATE			
Spleen		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 1-5.1]			
Stom Forestom			
Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
Thymus		Leukemia Granulocytic	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Granulocytic	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 120	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Moribund	DAY ON TEST: 474 HISTO: 21320300120
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Kidney	Liver	Lung
Nose	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 3-6.2]			
Intestine Small, Ileum		Autolysis	Moderate
Intestine Small, Jejunum		Autolysis	Moderate
Islets, Pancreatic		Hyperplasia	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Mammary Gland	Duct	Dilatation	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Spleen		Pigmentation	Marked
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:50
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 121	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 486 HISTO: 21320300121
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular	Lymph Node, Mesenteric
Preputial Gland	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Mild
Coagulating Gland		Atrophy	Mild
[Atrophy TGLS = 4-6.1]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Vacuolization Cytoplasmic	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Nose		Fungus	
		Inflammation	Chronic Active, Marked
		Necrosis	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland		Autolysis	Marked
Prostate, Ventral Lobe		Hyperplasia	Moderate
Skin		Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
		Schwannoma Malignant	
[Hyperkeratosis TGLS = 3-5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 121	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 486 HISTO: 21320300121
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 3-5.3] [Inflammation TGLS = 2-5.2] [Schwannoma Malignant TGLS = 1-5.1]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH	- Skin Schwannoma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 123	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 485 HISTO: 21320300123
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Parathyroid Gland	
AUTO PRECLUDES DIAG.			
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Urinary Bladder	
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Cortex		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-3]			
Adrenal Medulla		Lymphoma Malignant	
Bone Marrow		Lymphoma Malignant	
Esophagus		Hyperkeratosis	Mild
Heart		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 12,13,14-1]			
Int Lg Cecum			
Note: TGL # 20 - NO MICROSCOPIC CORRELATE			
Int Lg Colon			
Note: TGL # 19 - NO MICROSCOPIC CORRELATE			
Islets, Pancreatic		Lymphoma Malignant	
Kidney		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-2+2.1]			
Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 9-5.1]			
Lung		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 10-13.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 123	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 485 HISTO: 21320300123
ORGAN AND ACCOUNTABLE SITE STATUS			
[Lymphoma Malignant TGLS = 8-13]			
Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-12]			
Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 17-9.1]			
Nose		Lymphoma Malignant	
Pancreas		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-5]			
Pituitary Gland		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 16-3]			
Prostate, Dorsal Lobe		Lymphoma Malignant	
Salivary Glands		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-12]			
Sem Ves			
Note: TGL # 18 - NO MICROSCOPIC CORRELATE			
Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3,4-5]			
Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 11-1]			
Thyroid Gland		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 15-3]			
Trachea		Lymphoma Malignant	
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 126	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 468 HISTO: 21320300126
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
Bone, Femur	* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum
* Epididymis	* Esophagus	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	Rete Testes	* Salivary Glands	* Skin
* Testes	* Trachea		
AUTO PRECLUDES DIAG.			
Coagulating Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	Prostate, Ventral Lobe
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
INSUFFICIENT TISSUE			
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Urinary Bladder
OBSERVATIONS			
* Heart		Autolysis	Mild
		Cardiomyopathy	Mild
* Kidney		Autolysis	Mild
		Nephropathy	Chronic, Minimal
* Liver		Autolysis	Mild
		Vacuolization Cytoplasmic	Mild
* Lung		Autolysis	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Autolysis	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Autolysis	Mild
		Inflammation	Suppurative, Mild
* Spleen		Autolysis	Mild
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thymus		Hemorrhage	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 126	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 468 HISTO: 21320300126
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 132	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 525 HISTO: 21320300132
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Salivary Glands	Skin
MISSING			
Preputial Gland	Rete Testes		
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Epididymis
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Mammary Gland
Pituitary Gland	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Coagulating Gland		Autolysis	Moderate
	Interstitialium	Inflammation	Chronic, Moderate
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Autolysis	Moderate
	Pelvis	Bacterium	Marked
		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
[Autolysis TGLS = 3-2]			
[Bacterium TGLS = 3-2]			
[Hyperplasia TGLS = 3-2]			
[Inflammation TGLS = 3-2]			
Lung			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Pancreas	Acinar Cell	Degeneration	Mild
Penis		Concretion	
[Concretion TGLS = 4-13]			
Prostate, Dorsal Lobe		Autolysis	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 132	TRT#: 9	SEX: Male	DAY ON TEST: 525
	DOSE: F1 5PPM	DISP: Natural Death	HISTO: 21320300132
ORGAN AND ACCOUNTABLE SITE STATUS			
	Interstitialum	Fibrosis	Marked
		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe	Interstitialum	Fibrosis	Moderate
		Inflammation	Suppurative, Marked
Seminal Vesicle		Autolysis	Moderate
		Dilatation	Moderate
		Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
[Autolysis TGLS = 2-6.1]			
[Dilatation TGLS = 2-6.1]			
[Hyperplasia TGLS = 2-6.1]			
[Inflammation TGLS = 2-6.1]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Urin Bladder			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Kidney	Inflammation	
CONTRIBUTORY CAUSE OF DEATH	- Kidney	Bacterium	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 133	TRT#: 11	SEX: Male	DAY ON TEST: 528
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
	Myeloid Cell	Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Fibrosis	Minimal
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
[Fibrosis TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 4-10]			
[Mineralization TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 133	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 528 HISTO: 21320300133
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 138	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 534 HISTO: 21320300138
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Heart
Nose	Rete Testes	Salivary Glands	Skin
Stomach, Forestomach	Thyroid Gland	Trachea	Urethra
AUTO PRECLUDES DIAG.			
Blood Vessel	Coagulating Gland	Intestine Large, Cecum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Seminal Vesicle	Stomach, Glandular	Urinary Bladder
OBSERVATIONS			
Epididymis		Granuloma Sperm	Marked
[Granuloma Sperm TGLS = 2-6.1]			
Esophagus		Hyperkeratosis	Mild
Intestine Large, Colon		Autolysis	Marked
		Inflammation	Suppurative, Marked
Islets, Pancreatic		Autolysis	Marked
Kidney		Autolysis	Moderate
	Cortex	Cyst	
	Pelvis	Dilatation	Moderate
		Nephropathy	Chronic, Marked
[Dilatation TGLS = 5,6-2]			
Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 7-5.1]			
Lung		Autolysis	Moderate
		Infiltration Cellular	Histiocyte, Mild
Pancreas		Autolysis	Marked
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Cyst	Multiple
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 138	TRT#: 14	SEX: Male	DAY ON TEST: 534
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300138
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe [Inflammation TGLS = 1-6]		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Carcinoma	
Spleen		Depletion Lymphoid	Marked
		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
Urethra			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE (NORMAL BULBOURETHRAL GLAND)			
Urin Bladder			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Prostate, Ventral Lobe Carcinoma		
Animal Note: TGL # 04 - Noted grossly as Tissue NOS was Urethra			

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 144	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 494 HISTO: 21320300144
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	* Bone Marrow	Bone, Femur	* Epididymis
* Esophagus	* Heart	* Parathyroid Gland	* Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	* Skin
AUTO PRECLUDES DIAG.			
* Adrenal Cortex	* Adrenal Medulla	* Brain - Brain Stem	* Brain - Cerebrum
Coagulating Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
Bone, Cranium		Hemorrhage	Marked
[Hemorrhage TGLS = 4-13]			
* Brain	Cerebellum	Astrocytoma Malignant	
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Degeneration	Cystic, Moderate
[Degeneration TGLS = 3-5.1]			
[Hepatodiaphragmatic Nodule TGLS = 2-5.1]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-12]		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Testes	Seminif Tub	Degeneration	Mild
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Brain Cerebellum Astrocytoma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 144	TRT#: 19	SEX: Male	DAY ON TEST: 494
	DOSE: F3 0 PPM	DISP: Natural Death	HISTO: 21320300144

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL # 04 - Noted grossly as Cavity was Bone

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 146	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 497 HISTO: 21320300146
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	Blood Vessel	Bone, Femur	* Parathyroid Gland
* Skin	* Urinary Bladder		
MISSING			
Rete Testes			
AUTO PRECLUDES DIAG.			
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Stomach, Forestomach	* Stomach, Glandular		
INSUFFICIENT TISSUE			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Bone Marrow		Autolysis	Marked
		Lymphoma Malignant	
Coagulating Gland		Autolysis	Marked
		Lymphoma Malignant	
* Epididymis		Autolysis	Moderate
		Lymphoma Malignant	
* Esophagus		Hyperkeratosis	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Lymphoma Malignant	
* Kidney		Autolysis	Marked
		Lymphoma Malignant	
		Autolysis	Marked
		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-5]			
* Lung		Autolysis	Moderate
		Lymphoma Malignant	
Lymph Node	Axillary	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 146	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 497 HISTO: 21320300146
ORGAN AND ACCOUNTABLE SITE STATUS			
	Inguinal	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 9-13.1]		
	[Lymphoma Malignant TGLS = 7,8-13]		
	[Lymphoma Malignant TGLS = 5,6-13.2]		
* Lymph Node, Mandibular		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 10-12]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 4-9]		
* Nose		Lymphoma Malignant	
* Pancreas		Autolysis	Marked
* Pituitary Gland		Autolysis	Marked
		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 11-3]		
* Preputial Gland		Autolysis	Moderate
		Lymphoma Malignant	
Prostate, Dorsal Lobe		Lymphoma Malignant	
Prostate, Ventral Lobe		Lymphoma Malignant	
* Salivary Glands		Autolysis	Marked
		Lymphoma Malignant	
* Seminal Vesicle		Autolysis	Marked
		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 1-5]		
* Testes	Seminif Tub	Degeneration	Mild
* Thymus		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 3-1]		
* Thyroid Gland		Autolysis	Marked
		Lymphoma Malignant	
* Trachea		Lymphoma Malignant	
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 147

TRT#: 19

SEX: Male

DAY ON TEST: 497

DOSE: F3 0 PPM

DISP: Natural Death

HISTO: 21320300147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	Coagulating Gland
* Epididymis	* Esophagus	* Heart	* Liver
* Parathyroid Gland	* Pituitary Gland	* Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	* Salivary Glands	* Skin	* Testes

MISSING

Rete Testes

AUTO PRECLUDES DIAG.

* Bone Marrow	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Int Lg Colon			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
* Islets, Pancreatic		Hyperplasia	Minimal
* Lung		Autolysis	Moderate
	Mediastinum	Bacterium	Marked
	Mediastinum	Foreign Body	
	Mediastinum	Hemorrhage	Marked
	Mediastinum	Inflammation	Suppurative, Marked
	Mediastinum	Necrosis	Marked
* Nose		Autolysis	Moderate
		Inflammation	Suppurative, Marked
* Pancreas		Autolysis	Mild
	Acinar Cell	Degeneration	Minimal
* Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Autolysis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 147	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 497 HISTO: 21320300147
ORGAN AND ACCOUNTABLE SITE STATUS			
[Depletion Lymphoid TGLS = 1-5] [Pigmentation TGLS = 1-5]		Depletion Lymphoid Pigmentation	Marked Marked
PRIMARY CAUSE OF DEATH	-		
CONTRIBUTORY CAUSE OF DEATH	- Lung Mediastinum Inflammation;Lung Mediastinum Necrosis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 151

TRT#: 19

SEX: Male

DAY ON TEST: 506

DOSE: F3 0 PPM

DISP: Moribund

HISTO: 21320300151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Coagulating Gland	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Small, Jejunum

OBSERVATIONS

Brain	Brain Stem	Compression	Mild
	Brain Stem	Hemorrhage	Mild
	Cerebrum	Hemorrhage	Mild
[Hemorrhage TGLS = 3-8]			
Heart			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 4-12]			
[Hyperplasia TGLS = 4-12]			
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Lactation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 151	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 506 HISTO: 21320300151
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 154	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 508 HISTO: 21320300154
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone, Femur	* Esophagus	* Intestine Small, Duodenum	* Parathyroid Gland
Rete Testes	* Stomach, Forestomach	* Stomach, Glandular	Testes
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Adrenal Medulla	Blood Vessel	* Brain - Brain Stem	* Brain - Cerebellum
* Brain - Cerebrum	* Pituitary Gland		

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Leukemia Granulocytic	
* Bone Marrow	Autolysis	Marked
	Leukemia Granulocytic	
Coagulating Gland	Atrophy	Mild
	Leukemia Granulocytic	
[Atrophy TGLS = 18-6.1]		
Epididymis	Leukemia Granulocytic	
* Heart	Leukemia Granulocytic	
* Intestine Large, Cecum	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 20-9]		
* Intestine Large, Colon	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 19-9]		
* Intestine Small, Ileum	Leukemia Granulocytic	
* Intestine Small, Jejunum	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 14-9]		
* Islets, Pancreatic	Leukemia Granulocytic	
* Kidney	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 2,3-2.1+2.2]		
* Liver	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 4,13-5.1]		
* Lung	Leukemia Granulocytic	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 154	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 508 HISTO: 21320300154
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node	Inguinal	Leukemia Granulocytic	
	Thoracic	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 5-13]			
[Leukemia Granulocytic TGLS = 6,7-13.1+13.2]			
* Lymph Node, Mandibular		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 10-12]			
* Lymph Node, Mesenteric		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 9-9]			
* Nose		Leukemia Granulocytic	
* Pancreas		Leukemia Granulocytic	
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Inflammation	Suppurative, Marked
		Leukemia Granulocytic	
Prostate, Dorsal Lobe		Atrophy	Mild
		Leukemia Granulocytic	
Prostate, Ventral Lobe		Atrophy	Mild
		Leukemia Granulocytic	
[Atrophy TGLS = 15,16-6]			
* Salivary Glands		Leukemia Granulocytic	
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 17-6.1]			
* Skin		Leukemia Granulocytic	
* Spleen		Leukemia Granulocytic	
		Necrosis	Marked
[Leukemia Granulocytic TGLS = 1-5]			
[Necrosis TGLS = 11,12-5.2+5]			
* Thymus		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 8-1]			
* Thyroid Gland		Leukemia Granulocytic	
PRIMARY CAUSE OF DEATH	- Bone Marrow	Leukemia Granulocytic	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 172

TRT#: 11

SEX: Male

DAY ON TEST: 564

DOSE: F1 500PPM

DISP: Moribund

HISTO: 21320300172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Mammary Gland	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea			

MISSING

Rete Testes

AUTO PRECLUDES DIAG.

Adrenal Cortex

OBSERVATIONS

Bone Marrow	Lymphoma Malignant	
Esophagus	Hyperkeratosis	Mild
Harderian Gland	Pigmentation	Marked
[Pigmentation TGLS = 12-13.1]		
Heart	Autolysis	Marked
	Cardiomyopathy	Mild
Int Lg Cecum		
Note: TGL # 14 & 15 - NO MICROSCOPIC CORRELATE		
Islets, Pancreatic	Lymphoma Malignant	
Kidney	Autolysis	Marked
	Lymphoma Malignant	
Note: TGL # 06 - NO MICROSCOPIC CORRELATE		
[Lymphoma Malignant TGLS = 7-2]		
Liver	Autolysis	Moderate
	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 9-5]		
Lung	Autolysis	Moderate
	Lymphoma Malignant	
Note: PATHOLOGIST NOTED: TGL # 1 LOCATED ON SLIDE 10A (10.1) ONLY		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 172	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 564 HISTO: 21320300172
ORGAN AND ACCOUNTABLE SITE STATUS			
[Lymphoma Malignant TGLS = 10-10.1] Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-12] Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 13-9] Mesentery		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-13] [Necrosis TGLS = 4-13] Nose	Fat	Necrosis	Marked
Pancreas		Autolysis Keratin Cyst Lymphoma Malignant	Moderate
Pituitary Gland		Lymphoma Malignant Autolysis	Moderate
Preputial Gland	Parenchym Cell	Lymphoma Malignant Degeneration	Minimal
Prostate, Dorsal Lobe		Lymphoma Malignant	
Prostate, Ventral Lobe		Lymphoma Malignant	
Skin		Cyst Epithelial Inclusion Lipoma	
[Cyst Epithelial Inclusion TGLS = 1-5.2] [Lipoma TGLS = 2-5.3] Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-5.1] Thymus		Autolysis Lymphoma Malignant	Marked
[Lymphoma Malignant TGLS = 11-1] Thyroid Gland		Cyst	Squamous
Urinary Bladder		Autolysis	Marked
[Hemorrhage TGLS = 8-2]		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 172	TRT#: 11	SEX: Male	DAY ON TEST: 564
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300172

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	- Liver Lymphoma Malignant
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 176	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 565 HISTO: 21320300176
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Coagulating Gland	Epididymis	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Islets, Pancreatic
Liver	Lung	Pancreas	Parathyroid Gland
Rete Testes	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Small, Jejunum	Mammary Gland	Seminal Vesicle
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OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
Brain	Brain Stem	Hemorrhage	Mild
	Cerebellum	Hemorrhage	Mild
	Cerebrum	Hemorrhage	Mild
[Hemorrhage TGLS = 3-8]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Nose		Inflammation	Chronic Active, Mild
		Necrosis	Mild
Penis		Concretion	
		Hemorrhage	Minimal
[Concretion TGLS = 2-13]			
[Hemorrhage TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 176	TRT#: 12	SEX: Male	DAY ON TEST: 565
	DOSE: F1 5PPM/CTL	DISP: Natural Death	HISTO: 21320300176
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Moderate
[Hyperkeratosis TGLS = 4-5.2]			
[Hyperplasia TGLS = 4-5.2]			
Spleen		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 177

TRT#: 20

SEX: Male

DAY ON TEST: 522

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
Bone, Femur
* Lymph Node, Mandibular
* Skin
* Urinary Bladder

* Adrenal Medulla
Epididymis
* Parathyroid Gland
* Spleen

Blood Vessel
* Heart
Rete Testes
* Stomach, Forestomach

* Bone Marrow
* Liver
* Salivary Glands
Testes

MISSING

Coagulating Gland

AUTO PRECLUDES DIAG.

* Brain - Brain Stem
* Intestine Large, Colon
* Lung
* Stomach, Glandular

* Brain - Cerebellum
* Intestine Small, Duodenum
* Nose
* Thyroid Gland

* Brain - Cerebrum
* Intestine Small, Ileum
Prostate, Ventral Lobe
* Trachea

* Intestine Large, Cecum
* Intestine Small, Jejunum
Seminal Vesicle

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Esophagus
* Islets, Pancreatic
* Kidney

Capsule

* Lymph Node, Mesenteric
* Pancreas
* Pituitary Gland
[Adenoma TGLS = 1-3]
Preputial Gland
Prostate, Dorsal Lobe

Acinar Cell
Pars Distalis

Hyperkeratosis
Hyperplasia
Autolysis
Fatty Change
Infiltration Cellular
Inflammation
Degeneration
Adenoma

Mild
Mild
Moderate

Lymphocyte, Minimal
Granulomatous, Mild
Mild

Infiltration Cellular
Autolysis
Inflammation
Atrophy

Lymphocyte, Minimal
Moderate
Suppurative, Mild
Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 179	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 569 HISTO: 21320300179
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Liver	Lung	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Prostate, Dorsal Lobe
Salivary Glands	Skin	Thyroid Gland	Urinary Bladder
MISSING			
Rete Testes			
AUTO PRECLUDES DIAG.			
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Stomach, Forestomach	Stomach, Glandular	Trachea
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Esophagus		Hyperkeratosis	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Autolysis	Mild
		Nephropathy	Chronic, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Inflammation	Granulomatous, Marked
Pancreas		Autolysis	Moderate
	Acinar Cell	Degeneration	Mild
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Moderate
Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 1-6.1]			
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 179	TRT#: 8	SEX: Male	DAY ON TEST: 569
	DOSE: F1 0PPM	DISP: Natural Death	HISTO: 21320300179
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 180	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 568 HISTO: 21320300180
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Epididymis	Liver
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea		
AUTO PRECLUDES DIAG.			
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum			
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Brain	Brain Stem	Glioma Malignant	
	Cerebrum	Glioma Malignant	
[Glioma Malignant TGLS = 5-8]			
Coagulating Gland		Atrophy	Mild
		Autolysis	Mild
[Atrophy TGLS = 7-6.1]			
Esophagus		Hyperkeratosis	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Autolysis	Marked
		Nephropathy	Chronic, Minimal
Lung		Autolysis	Moderate
		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2,3,4-10]			
Pancreas		Autolysis	Mild
	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 180	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 568 HISTO: 21320300180
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Autolysis Inflammation	Moderate Suppurative, Minimal
Prostate, Ventral Lobe		Autolysis Hyperplasia	Moderate Mild
Seminal Vesicle		Atrophy Autolysis	Mild Marked
[Atrophy TGLS = 6-6.1]			
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5.1]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Urinary Bladder		Dilatation	Marked
PRIMARY CAUSE OF DEATH	- Brain Brain Stem Glioma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 185	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 569 HISTO: 21320300185
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate, Ventral Lobe	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Vacuolization Cytoplasmic	Minimal
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Chronic, Mild
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Rete Testes		Dilatation	Minimal
Saliv Glands			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Seminal Vesicle		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 185	TRT#: 11	SEX: Male	DAY ON TEST: 569
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300185
ORGAN AND ACCOUNTABLE SITE STATUS			
[Atrophy TGLS = 6-6.1]			
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
[Inflammation TGLS = 4,5-5.1]			
[Necrosis TGLS = 4,5-5.1]			
Spleen		Hematopoietic Cell Proliferation	Marked
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
Zymbal's Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-13]			
PRIMARY CAUSE OF DEATH	- Zymbal's Gland Squamous Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 186	TRT#: 8	SEX: Male	DAY ON TEST: 572
	DOSE: F1 0PPM	DISP: Moribund	HISTO: 21320300186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 1-2.1]			
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Nose	Upper Molar	Inflammation	Chronic Active, Mild
		Keratin Cyst	
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 186	TRT#: 8	SEX: Male	DAY ON TEST: 572
	DOSE: F1 0PPM	DISP: Moribund	HISTO: 21320300186
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 4-5.2] [Hyperplasia TGLS = 4-5.2] [Inflammation TGLS = 3-5.2] [Necrosis TGLS = 3-5.2]	Inflammation	Suppurative, Marked	
	Necrosis	Moderate	
	Spleen	Pigmentation	Moderate
	Thymus	Atrophy	Marked
Note: TGL # 05 - NO SECTION TAKEN			
PRIMARY CAUSE OF DEATH		- UNCERTAIN	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 188

TRT#: 21

SEX: Male

DAY ON TEST: 527

DOSE: F3 100PPM TO CTL

DISP: Natural Death

HISTO: 21320300188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	Coagulating Gland
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	Rete Testes	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Preputial Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum * Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Pancreas	Acinar Cell	Degeneration	Mild
* Preputial GI			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild
* Skin		Cyst Epithelial Inclusion	
* Testes	Seminif Tub	Degeneration	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 189	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 529 HISTO: 21320300189
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Ileum	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate, Dorsal Lobe
Rete Testes	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

Intestine Small, Duodenum	Intestine Small, Jejunum
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OBSERVATIONS

Bone Marrow		Carcinoma	Metastatic (Pancreas)
Coagulating Gland		Atrophy	Mild
		Developmental Malformation	
[Atrophy TGLS = 17-6.1]			
[Developmental Malformation TGLS = 17-6.1]			
Esophagus		Hyperkeratosis	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Adventitia	Carcinoma	Metastatic (Pancreas)
		Nephropathy	Chronic, Mild
[Carcinoma TGLS = 14-2]			
Liver		Carcinoma	Metastatic (Pancreas)
		Fibrosis	Marked
	Bile Duct	Hyperplasia	Marked
		Inflammation	Chronic Active, Marked
		Vacuolization Cytoplasmic	Moderate
[Carcinoma TGLS = 8,9,10,11,12-5.2+5.3+5.4+5.5]			
Lung		Carcinoma	Metastatic (Pancreas)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 189	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 529 HISTO: 21320300189
ORGAN AND ACCOUNTABLE SITE STATUS			
[Carcinoma TGLS = 2,3,4,5,6-10+10.1]			
Lymph Node, Mesenteric		Hyperplasia Inflammation	Lymphoid, Mild Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pancreas		Carcinoma	
[Carcinoma TGLS = 16-5.1]			
Prostate, Ventral Lobe		Hyperplasia Inflammation	Mild Suppurative, Minimal
Salivary Glands		Carcinoma	Metastatic (Pancreas)
[Carcinoma TGLS = 1-12]			
Skeletal Muscle		Carcinoma	Metastatic (Pancreas)
[Carcinoma TGLS = 15-13]			
Spleen		Carcinoma Hematopoietic Cell Proliferation	Metastatic (Pancreas) Marked
[Carcinoma TGLS = 7,13-5.1]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH - Pancreas Carcinoma			
Animal Note: TGL # 15 - Noted grossly as Bone, Rib was Skeletal Muscle			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 190	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 532 HISTO: 21320300190
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	* Bone Marrow	Bone, Femur	Epididymis
* Esophagus	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	Prostate, Ventral Lobe	* Salivary Glands
* Skin	* Stomach, Forestomach	Testes	
MISSING			
Rete Testes			
AUTO PRECLUDES DIAG.			
* Adrenal Cortex	* Adrenal Medulla	* Brain - Cerebellum	* Brain - Cerebrum
Coagulating Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Nose	* Pancreas	Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Brain	Brain Stem	Autolysis	Marked
[Compression TGLS = 3-8]	Brain Stem	Compression	Mild
* Heart		Cardiomyopathy	Minimal
* Mammary Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-5.1]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Preputial Gland		Autolysis	Moderate
[Inflammation TGLS = 4-6.1]		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Autolysis	Mild
		Inflammation	Suppurative, Mild
* Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 190	TRT#: 22	SEX: Male	DAY ON TEST: 532
	DOSE: F3 500PPM TO CTL	DISP: Natural Death	HISTO: 21320300190

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 191	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 578 HISTO: 21320300191
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Parathyroid Gland	
MISSING			
Rete Testes			
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Pancreas	Pituitary Gland	Preputial Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Epididymis		Autolysis	Mild
Esophagus		Hyperkeratosis	Mild
Sem Ves			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Skin		Fibroma	
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Inflammation	Suppurative, Marked
[Fibroma TGLS = 1-5.1]			
[Hyperkeratosis TGLS = 5-5.4]			
[Hyperplasia TGLS = 5-5.4]			
[Inflammation TGLS = 3-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 191	TRT#: 8	SEX: Male	DAY ON TEST: 578
	DOSE: F1 0PPM	DISP: Natural Death	HISTO: 21320300191
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 4-5.3]			
Testes	Seminif Tub	Degeneration	Moderate
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 199	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 584 HISTO: 21320300199
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Islets, Pancreatic
Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Adrenal Cortex	Adrenal Medulla	Coagulating Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Seminal Vesicle	Thyroid Gland	

OBSERVATIONS

Esophagus		Hyperkeratosis	Mild
Heart		Cardiomyopathy	Minimal
Lung		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-10]			
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 3-6.1]			
[Inflammation TGLS = 3-6.1]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-1.1]			

PRIMARY CAUSE OF DEATH	- Thymus Lymphoma Malignant
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 201	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Moribund	DAY ON TEST: 589 HISTO: 21320300201
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Parathyroid Gland	Pituitary Gland	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow		Lymphoma Malignant	
Bone, Femur		Necrosis	Marked
Heart		Lymphoma Malignant	
Intestine Large, Cecum		Lymphoma Malignant	
Islets, Pancreatic		Hyperplasia	Mild
		Lymphoma Malignant	
Kidney		Lymphoma Malignant	
		Nephropathy	Chronic, Mild
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-5]			
Lung		Lymphoma Malignant	
	Artery	Mineralization	Mild
Lymph Node	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-13.2]			
[Lymphoma Malignant TGLS = 5-13.1]			
[Lymphoma Malignant TGLS = 3-13]			
Lymph Node, Mandibular		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 201	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Moribund	DAY ON TEST: 589 HISTO: 21320300201
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Lymphoma Malignant	
Nose		Lymphoma Malignant	
Pancreas	Acinar Cell	Degeneration	Mild
		Lymphoma Malignant	
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Lymphoma Malignant	
Prostate, Ventral Lobe		Lymphoma Malignant	
Seminal Vesicle		Atrophy	Moderate
Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Marked
Thymus		Lymphoma Malignant	
PRIMARY CAUSE OF DEATH	- Heart Lymphoma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 202	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 588 HISTO: 21320300202
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Esophagus	Rete Testes
Skin	Stomach, Forestomach	Testes	
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla		
OBSERVATIONS			
Bone Marrow		Lymphoma Malignant	
Brain	Brain Stem	Lymphoma Malignant	
	Cerebellum	Lymphoma Malignant	
	Cerebrum	Lymphoma Malignant	
Coagulating Gland		Lymphoma Malignant	
Epididymis		Lymphoma Malignant	
Heart		Lymphoma Malignant	
Intestine Large, Cecum		Lymphoma Malignant	
Intestine Large, Colon		Lymphoma Malignant	
Intestine Small, Duodenum		Lymphoma Malignant	
Intestine Small, Ileum		Lymphoma Malignant	
Intestine Small, Jejunum		Lymphoma Malignant	
Islets, Pancreatic		Lymphoma Malignant	
Kidney		Lymphoma Malignant	
Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-5]			
Lung		Hemorrhage	Moderate
		Lymphoma Malignant	
Lymph Node	Deep Cervical	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	Thoracic	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-13]			
[Lymphoma Malignant TGLS = 5,6-13.3+13.2]			
[Lymphoma Malignant TGLS = 7-13.1]			
Lymph Node, Mandibular		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 202	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 588 HISTO: 21320300202
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric [Lymphoma Malignant TGLS = 9-9]		Lymphoma Malignant	
Mammary Gland [Lymphoma Malignant TGLS = 10-5.1]		Lymphoma Malignant	
Nose		Lymphoma Malignant	
Pancreas		Lymphoma Malignant	
Parathyroid Gland		Lymphoma Malignant	
Pituitary Gland		Lymphoma Malignant	
Preputial Gland		Lymphoma Malignant	
Prostate, Dorsal Lobe		Lymphoma Malignant	
Prostate, Ventral Lobe		Lymphoma Malignant	
Salivary Glands [Lymphoma Malignant TGLS = 2-12]		Lymphoma Malignant	
Seminal Vesicle		Lymphoma Malignant	
Spleen [Lymphoma Malignant TGLS = 1-5]		Lymphoma Malignant	
Stomach, Glandular		Lymphoma Malignant	
Thymus [Lymphoma Malignant TGLS = 8-1]		Lymphoma Malignant	
Thyroid Gland		Lymphoma Malignant	
Trachea		Lymphoma Malignant	
Urinary Bladder		Lymphoma Malignant	
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 203	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 544 HISTO: 21320300203
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	* Bone Marrow	Bone, Femur	* Brain - Brain Stem
* Brain - Cerebellum	* Brain - Cerebrum	Coagulating Gland	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Preputial Gland	Rete Testes	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	Tongue	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Cortex		Autolysis	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5.1]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild
* Mammary Gland		Degeneration	Moderate
* Pancreas	Acinar Cell	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Cyst	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Testes	Seminif Tub	Degeneration	Minimal
* Thymus		Atrophy	Marked
Tongue			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 203	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 544 HISTO: 21320300203
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	- Liver Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 204	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Moribund	DAY ON TEST: 593 HISTO: 21320300204
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Coagulating Gland
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex [Atrophy TGLS = 1-3]		Atrophy	Marked
Bone Marrow		Hypocellularity	Marked
Brain	Brain Stem	Compression	Mild
	Cerebellum	Hydrocephalus	Minimal
	Cerebrum	Hydrocephalus	Minimal
Kidney	Cortex	Cyst	
		Hyperplasia	Tubular, Moderate
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Necrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Nose		Foreign Body	
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 204	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Moribund	DAY ON TEST: 593 HISTO: 21320300204
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell Duct	Degeneration Dilatation Inflammation	Moderate Marked Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
Spleen		Pigmentation	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 206	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 550 HISTO: 21320300206
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	* Epididymis	* Esophagus
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland
Rete Testes	* Salivary Glands	* Stomach, Forestomach	
AUTO PRECLUDES DIAG.			
* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain - Brain Stem
* Brain - Cerebellum	* Brain - Cerebrum	Coagulating Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Mammary Gland
* Nose	* Pancreas	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 1,2,3,4-10]			
* Preputial Gland		Autolysis	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Autolysis	Moderate
		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Autolysis	Marked
* Testes		Autolysis	Marked
Note: PATHOLOGIST NOTED: NORMAL SECTION OF TESTES WAS AUTOLYSIS PRECLUDES DIAGNOSIS			
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 207	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 550 HISTO: 21320300207
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	* Bone Marrow	Bone, Femur	* Brain - Brain Stem
* Brain - Cerebellum	* Brain - Cerebrum	* Epididymis	* Nose
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Urinary Bladder
MISSING			
* Esophagus	Rete Testes		
AUTO PRECLUDES DIAG.			
* Adrenal Cortex	* Adrenal Medulla	Coagulating Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Salivary Glands	* Stomach, Glandular	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Pancreas	Acinar Cell	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-6.1]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Autolysis	Mild
		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle		Atrophy	Moderate
		Autolysis	Marked
[Atrophy TGLS = 2-6.1]			
* Spleen		Pigmentation	Mild
* Testes	Seminif Tub	Degeneration	Moderate
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 209	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 554 HISTO: 21320300209
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	Bone, Femur	Coagulating Gland	* Esophagus
* Liver	* Parathyroid Gland	* Pituitary Gland	Preputial Gland
* Salivary Glands	* Urinary Bladder		
MISSING			
* Adrenal Medulla	Rete Testes		
AUTO PRECLUDES DIAG.			
Blood Vessel	* Bone Marrow	* Brain - Brain Stem	* Brain - Cerebellum
* Brain - Cerebrum	Epididymis	* Heart	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
Prostate, Ventral Lobe	Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		
INSUFFICIENT TISSUE			
* Mammary Gland			
OBSERVATIONS			
* Intestine Large, Cecum		Autolysis	Moderate
		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-9.1]			
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Autolysis	Marked
		Nephropathy	Chronic, Moderate
* Lung		Autolysis	Mild
	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Autolysis	Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Autolysis	Moderate
		Inflammation	Granulomatous, Mild
* Mammary Gl			
Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			
* Pancreas		Autolysis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 209		TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 554 HISTO: 21320300209
ORGAN AND ACCOUNTABLE SITE STATUS				
Prostate, Dorsal Lobe			Autolysis Inflammation	Moderate Suppurative, Mild
Sem Ves				
Note: TGL # 04 - NO MICROSCOPIC CORRELATE				
* Skin			Neurofibrosarcoma	
[Neurofibrosarcoma TGLS = 1-5.1]				
* Spleen			Autolysis Depletion Lymphoid Pigmentation	Marked Moderate Moderate
[Depletion Lymphoid TGLS = 2-5]				
[Pigmentation TGLS = 2-5]				
Testes			Autolysis	Mild
	Seminif Tub		Degeneration	Mild
* Thymus			Atrophy	Marked
			Autolysis	Moderate
PRIMARY CAUSE OF DEATH	- Skin Neurofibrosarcoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 212	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 598 HISTO: 21320300212
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebrum	Epididymis	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Rete Testes
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Brain	Brain Stem	Compression	Mild
	Cerebellum	Gliosis	Minimal
	Cerebellum	Hemorrhage	Minimal
[Compression TGLS = 5-8]			
Coagulating Gland		Atrophy	Moderate
[Atrophy TGLS = 3-6.1]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
		Pigmentation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 4-6]			
Prostate, Ventral Lobe		Degeneration	Moderate
		Inflammation	Suppurative, Mild
[Degeneration TGLS = 4-6]			
[Inflammation TGLS = 4-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 212	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 598 HISTO: 21320300212
ORGAN AND ACCOUNTABLE SITE STATUS			
Seminal Vesicle [Atrophy TGLS = 2-6.1]		Atrophy	Moderate
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 214	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 555 HISTO: 21320300214
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric	Nose
Pituitary Gland	Preputial Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
	Myeloid Cell	Hyperplasia	Moderate
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-10]			
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 2-5.1]			
Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 214	TRT#: 21	SEX: Male	DAY ON TEST: 555
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300214
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Moderate
Zymbal's Gland		Adenoma	
[Adenoma TGLS = 1-13]			
PRIMARY CAUSE OF DEATH	- Zymbal's Gland Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 216

TRT#: 9

SEX: Male

DAY ON TEST: 602

DOSE: F1 5PPM

DISP: Moribund

HISTO: 21320300216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Coagulating Gland	Epididymis	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Small, Jejunum

OBSERVATIONS

Brain	Brain Stem	Compression	Mild
	Cerebellum	Hydrocephalus	Moderate
	Cerebrum	Hydrocephalus	Moderate
[Compression TGLS = 6-8]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Lymphocyte, Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-5]			
[Infiltration Cellular TGLS = 1-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mammary Gland	Duct	Dilatation	Moderate
		Galactoceles	Marked
		Hemorrhage	Marked
		Inflammation	Suppurative, Mild
		Inflammation	Granulomatous, Marked
[Dilatation TGLS = 3-5.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 216	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Moribund	DAY ON TEST: 602 HISTO: 21320300216
ORGAN AND ACCOUNTABLE SITE STATUS			
[Galactocoele TGLS = 4-5.2]			
[Hemorrhage TGLS = 4-5.2]			
[Inflammation TGLS = 3-5.1]			
[Inflammation TGLS = 4-5.2]			
Pancreas	Acinar Cell	Degeneration	Mild
		Pigmentation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
[Inflammation TGLS = 2-6]			
Skin			
Note: TGL # 03 & 04 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Pigmentation	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 217	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 603 HISTO: 21320300217
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Heart	Pituitary Gland	Urinary Bladder
MISSING			
Parathyroid Gland	Rete Testes		
AUTO PRECLUDES DIAG.			
Coagulating Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric	Pancreas
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Trachea
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Liver		Angiectasis	Moderate
		Cholangiocarcinoma	
[Cholangiocarcinoma TGLS = 2-5]			
Nose		Inflammation	Suppurative, Marked
		Keratin Cyst	
[Keratin Cyst TGLS = 7-11]			
Parathyroid Gl			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Degeneration	Mild
		Inflammation	Suppurative, Mild
Seminal Vesicle		Atrophy	Moderate
		Autolysis	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 217	TRT#: 13	SEX: Male	DAY ON TEST: 603
	DOSE: F1 100PPM/CTL	DISP: Natural Death	HISTO: 21320300217
ORGAN AND ACCOUNTABLE SITE STATUS			
[Atrophy TGLS = 6-6.1]			
Skin		Foreign Body Inflammation	Suppurative, Marked
[Foreign Body TGLS = 3-5.1]			
[Inflammation TGLS = 3,4-5.1+5.2]			
Spleen		Depletion Lymphoid Hematopoietic Cell Proliferation Pigmentation	Marked Mild Mild
[Depletion Lymphoid TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Marked
Note: PATHOLOGIST NOTED: WET TISSUE CHECKED, NO RETE TESTES LOCATED			
[Degeneration TGLS = 5-7]			
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 225

TRT#: 13

SEX: Male

DAY ON TEST: 605

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Epididymis	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Rete Testes

OBSERVATIONS

Brain	Cerebellum	Granular Cell Tumor Malignant	
	Cerebrum	Granular Cell Tumor Malignant	
[Granular Cell Tumor Malignant TGLS = 4-8]			
Coagulating Gland		Atrophy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Mild
[Metaplasia TGLS = 2,3-10]			
[Mineralization TGLS = 2,3-10]			
Pancreas	Acinar Cell	Degeneration	Mild
		Pigmentation	Minimal
Preputial Gland		Inflammation	Chronic, Mild
		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 225	TRT#: 13	SEX: Male	DAY ON TEST: 605
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300225
ORGAN AND ACCOUNTABLE SITE STATUS			
[Atrophy TGLS = 5-6.1]			
Skin		Fibrosis	Marked
		Inflammation	Chronic Active, Mild
[Fibrosis TGLS = 6-5.1]			
[Inflammation TGLS = 6-5.1]			
Testes	Note: PATHOLOGIST NOTED: WET TISSUE CHECKED, NO RETE TESTES LOCATED		
Thymus			
PRIMARY CAUSE OF DEATH - Brain Cerebrum Granular Cell Tumor Malignant			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 226	TRT#: 13	SEX: Male	DAY ON TEST: 610
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Mammary Gland	Thymus
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OBSERVATIONS

Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE(LYMPH NODE, HEMAL)			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
		Pigmentation	Marked
[Inflammation TGLS = 4-9]			
[Pigmentation TGLS = 4-9]			
Pancreas	Acinar Cell	Degeneration	Moderate
		Inflammation	Chronic, Mild
	Adventitia	Polyarteritis	Mild
Parathyroid Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 226	TRT#: 13	SEX: Male	DAY ON TEST: 610
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300226
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Inflammation	Chronic Active, Marked
		Necrosis	Marked
		Pigmentation	Marked
[Inflammation TGLS = 1-5]			
[Necrosis TGLS = 1-5]			
Thymus			
Note: TGL # 06 - NOTED GROSSLY AS THYMUS WAS LYMPH NODE, HEMAL			
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 227	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 570 HISTO: 21320300227
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	* Parathyroid Gland	Rete Testes
AUTO PRECLUDES DIAG.			
* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain - Brain Stem
* Brain - Cerebellum	* Brain - Cerebrum	Coagulating Gland	Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	Preputial Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	* Salivary Glands	Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
INSUFFICIENT TISSUE			
* Mammary Gland			
OBSERVATIONS			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Autolysis	Marked
	Cortex	Cyst	
[Cyst TGLS = 3-2]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2-10]			
* Skin		Hyperkeratosis	Marked
	Epidermis	Hyperplasia	Moderate
[Hyperkeratosis TGLS = 1-5.1]			
[Hyperplasia TGLS = 1-5.1]			
Testes		Autolysis	Marked
Note: PATHOLOGIST NOTED: NORMAL SECTION OF TESTES WAS AUTOLYSIS PRECLUDES DIAGNOSIS			
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 230	TRT#: 10	SEX: Male	DAY ON TEST: 617
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Glandular	Thyroid Gland
Trachea			

OBSERVATIONS

Coagulating Gland		Atrophy	Moderate
Kidney		Fibrosarcoma	Metastatic (Skin)
		Nephropathy	Chronic, Mild
Note: TGL # 09 - NO SECTIN TAKEN			
[Fibrosarcoma TGLS = 8-2]			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Fibrosarcoma	Metastatic (Skin)
		Infiltration Cellular	Histiocyte, Marked
[Fibrosarcoma TGLS = 2,4,5,6,7-10+10.1]			
[Infiltration Cellular TGLS = 2,4,5,6,7-10+10.1]			
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Moderate
Skin		Fibrosarcoma	
[Fibrosarcoma TGLS = 1-5.1]			
Spleen		Pigmentation	Marked
Stomach, Forestomach		Keratin Cyst	
[Keratin Cyst TGLS = 10-9]			
Testes	Seminif Tub	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 230	TRT#: 10	SEX: Male	DAY ON TEST: 617
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300230
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Moderate
Urinary Bladder		Dilatation	Marked
[Dilatation TGLS = 3-2]			
PRIMARY CAUSE OF DEATH	- Skin Fibrosarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 231

TRT#: 9

SEX: Male

DAY ON TEST: 617

DOSE: F1 5PPM

DISP: Moribund

HISTO: 21320300231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Cerebellum	Esophagus	Heart	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Parathyroid Gland	Rete Testes
Salivary Glands	Stomach, Glandular	Testes	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Skin
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OBSERVATIONS

Bone Marrow		Lymphoma Malignant	
Brain	Brain Stem	Lymphoma Malignant	
	Cerebrum	Lymphoma Malignant	
Coagulating Gland		Developmental Malformation	
		Lymphoma Malignant	
[Developmental Malformation TGLS = 11-6.1]			
Epididymis		Lymphoma Malignant	
Intestine Large, Cecum		Lymphoma Malignant	
Intestine Large, Colon		Lymphoma Malignant	
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 9-2]			
Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-5]			
Lung		Lymphoma Malignant	
Lymph Node	Lumbar	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Lymphoma Malignant	
[Degeneration TGLS = 1-12]			
Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 231	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Moribund	DAY ON TEST: 617 HISTO: 21320300231
ORGAN AND ACCOUNTABLE SITE STATUS			
Nose		Lymphoma Malignant	
Pancreas		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-5.1]			
Pituitary Gland		Lymphoma Malignant	
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Lymphoma Malignant	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
		Lymphoma Malignant	
Prostate, Ventral Lobe		Lymphoma Malignant	
Saliv Glands			
Note: TGL # 01 - NOTED GROSSLY AS SALIVARY GLAND WAS LYMPH NODE, MANDIBULAR			
Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 10-6.1]			
Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-5.1]			
Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Mild
		Ulcer	Moderate
[Hyperkeratosis TGLS = 12-9]			
[Hyperplasia TGLS = 12-9]			
[Ulcer TGLS = 12-9]			
Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-1]			
Urinary Bladder		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-2]			
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 232

TRT#: 10

SEX: Male

DAY ON TEST: 619

DOSE: F1 100PPM

DISP: Moribund

HISTO: 21320300232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla
Heart
Islets, Pancreatic
Testes

Blood Vessel
Intestine Large, Colon
Parathyroid Gland
Urinary Bladder

Bone, Femur
Intestine Small, Duodenum
Rete Testes

Esophagus
Intestine Small, Ileum
Stomach, Forestomach

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex
Bone Marrow
Brain

Brain Stem
Cerebellum
Cerebrum
Adventitia

Coagulating Gland
Epididymis
Intestine Large, Cecum
Intestine Small, Jejunum

[Lymphoma Malignant TGLS = 10-9]

Kidney

Cortex

[Cyst TGLS = 11-2]

[Lymphoma Malignant TGLS = 11-2]

Liver

[Lymphoma Malignant TGLS = 2-5.1]

Lung

[Lymphoma Malignant TGLS = 7-10]

Lymph Node

Mediastinal
Thoracic

Lymphoma Malignant
Lymphoma Malignant
Lymphoma Malignant
Lymphoma Malignant
Lymphoma Malignant
Lymphoma Malignant
Lymphoma Malignant
Lymphoma Malignant

Cyst
Lymphoma Malignant

Lymphoma Malignant

Lymphoma Malignant

Lymphoma Malignant
Lymphoma Malignant

Note: PATHOLOGIST NOTED: TGL # 4 ALSO LOCATED ON SLIDE # 13A

[Lymphoma Malignant TGLS = 8-13.1]

[Lymphoma Malignant TGLS = 4-13+13.1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 232	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Moribund	DAY ON TEST: 619 HISTO: 21320300232
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular [Lymphoma Malignant TGLS = 6-12]		Lymphoma Malignant	
Lymph Node, Mesenteric [Lymphoma Malignant TGLS = 5-9]		Lymphoma Malignant	
Nose		Lymphoma Malignant	
Pancreas		Lymphoma Malignant	
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst Lymphoma Malignant Lymphoma Malignant	
Preputial Gland [Lymphoma Malignant TGLS = 1-6.1]		Lymphoma Malignant Lymphoma Malignant	
Prostate, Dorsal Lobe		Lymphoma Malignant	
Prostate, Ventral Lobe		Lymphoma Malignant	
Salivary Glands		Lymphoma Malignant	
Seminal Vesicle [Atrophy TGLS = 9-6.1]		Atrophy	Moderate
Skin		Lymphoma Malignant	
Spleen [Lymphoma Malignant TGLS = 3-5]		Lymphoma Malignant	
Stomach, Glandular		Lymphoma Malignant	
Thymus		Lymphoma Malignant	
Thyroid Gland		Lymphoma Malignant	
Trachea		Lymphoma Malignant	
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 239

TRT#: 19

SEX: Male

DAY ON TEST: 581

DOSE: F3 0 PPM

DISP: Moribund

HISTO: 21320300239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Coagulating Gland	Epididymis	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Parathyroid Gland	Preputial Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Brain	Brain Stem	Compression	Moderate
	Cerebrum	Hydrocephalus	Minimal
[Compression TGLS = 2-8]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
[Cyst TGLS = 4-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 240

TRT#: 13

SEX: Male

DAY ON TEST: 627

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Heart	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mesenteric	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large, Cecum

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Nose		Inflammation	Suppurative, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
		Inflammation	Chronic, Mild
		Pigmentation	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Suppurative, Marked
	Adventitia	Squamous Cell Carcinoma	
Skin		Inflammation	Chronic Active, Minimal
		Squamous Cell Carcinoma	

[Inflammation TGLS = 2-5.1]

[Squamous Cell Carcinoma TGLS = 1-5.2]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 240	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 627 HISTO: 21320300240
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	- Skin Squamous Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 254

TRT#: 12

SEX: Male

DAY ON TEST: 627

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lymph Node, Mesenteric	Nose	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Brain			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE(CEREBRUM)			
Harderian Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 4-13]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
		Infiltration Cellular	Lymphocyte, Mild
[Ectopic Harderian TGLS = 1-13.1]			
[Infiltration Cellular TGLS = 1-13.1]			
Liver		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
		Infiltration Cellular	Lymphocyte, Mild
		Squamous Cell Carcinoma	Metastatic (Preputial Gland)
[Infiltration Cellular TGLS = 6-10]			
[Infiltration Cellular TGLS = 6-10]			
[Squamous Cell Carcinoma TGLS = 6-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 254	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 627 HISTO: 21320300254
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular [Hyperplasia TGLS = 2-12]		Hyperplasia	Lymphoid, Mild
Pancreas	Acinar Cell	Degeneration Pigmentation	Mild Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation Squamous Cell Carcinoma	Suppurative, Marked
[Inflammation TGLS = 3-6.1] [Squamous Cell Carcinoma TGLS = 3-6.1]			
Seminal Vesicle		Inflammation	Chronic, Mild
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Preputial Gland	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 269	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 631 HISTO: 21320300269
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
MISSING			
Mammary Gland	Thymus		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 3-5.1]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Zymbal's Gland		Carcinoma	
		Inflammation	Suppurative, Marked
[Carcinoma TGLS = 1,2-13.1+13]			
[Inflammation TGLS = 1-13.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 269

TRT#: 13

SEX: Male

DAY ON TEST: 631

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300269

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

Animal Note: TGL # 01 - Noted grossly as Lymph Node, Deep Cervical was Zymbal's Gland

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 272

TRT#: 20

SEX: Male

DAY ON TEST: 587

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Esophagus
* Skin

* Adrenal Medulla
* Islets, Pancreatic
* Thyroid Gland

Blood Vessel
* Parathyroid Gland

Bone, Femur
* Pituitary Gland

AUTO PRECLUDES DIAG.

* Bone Marrow
Coagulating Gland
* Intestine Large, Colon
* Liver
* Mammary Gland
Prostate, Dorsal Lobe
Seminal Vesicle
* Trachea

* Brain - Brain Stem
* Eye
* Intestine Small, Duodenum
* Lung
* Nose
Prostate, Ventral Lobe
* Stomach, Forestomach
* Urinary Bladder

* Brain - Cerebellum
* Heart
* Intestine Small, Ileum
* Lymph Node, Mandibular
* Pancreas
Rete Testes
* Stomach, Glandular

* Brain - Cerebrum
* Intestine Large, Cecum
* Intestine Small, Jejunum
* Lymph Node, Mesenteric
Prostate
* Salivary Glands
* Thymus

OBSERVATIONS

Coagulat GI
Note: TGL # 03 - NO MICROSCOPIC CORRELATE
Epididymis

Autolysis
Hypospermia

Marked
Marked

* Eye
Note: TGL # 02 - NO MICROSCOPIC CORRELATE
* Kidney

Autolysis
Cyst
Nephropathy
Autolysis
Degeneration
Infiltration Cellular

Marked

Chronic, Mild
Marked
Mild
Lymphocyte, Mild

Cortex

Preputial Gland

Parenchym Cell

* Spleen

Autolysis
Pigmentation
Degeneration

Marked
Marked
Marked

Testes
[Degeneration TGLS = 1-7]
Seminif Tub

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 272

TRT#: 20

SEX: Male

DAY ON TEST: 587

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300272

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 277	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 634 HISTO: 21320300277
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Esophagus	Heart	Parathyroid Gland	Pituitary Gland
Rete Testes	Skin		
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Liver	Lung	Nose
Pancreas	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Lymph Node, Mandibular		Autolysis	Marked
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Autolysis	Marked
		Inflammation	Granulomatous, Mild
Preputial Gland		Autolysis	Marked
		Inflammation	Suppurative, Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-7]			
Thymus		Atrophy	Marked
		Autolysis	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 279

TRT#: 21

SEX: Male

DAY ON TEST: 593

DOSE: F3 100PPM TO CTL

DISP: Moribund

HISTO: 21320300279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow	Erythroid Cell	Hyperplasia	Marked
Coagulating Gland		Degeneration	Mild
Epididymis		Degeneration	Moderate
		Hypospermia	Marked
Heart		Cardiomyopathy	Mild
Int Lg Cecum			
Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
Int Lg Colon			
Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
Int Sm Duoden			
Note: TGL # 10 - NO MICROSCOPIC CORRELATE			
Int Sm Ileum			
Note: TGL # 10 - NO MICROSCOPIC CORRELATE			
Int Sm Jejunum			
Note: TGL # 10 - NO MICROSCOPIC CORRELATE			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 4-2]			
Liver			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lung	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 279	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 593 HISTO: 21320300279
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 12 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Chronic Active, Mild
[Hyperplasia TGLS = 8-12]			
[Infiltration Cellular TGLS = 8-12]			
[Inflammation TGLS = 8-12]			
Lymph Node, Mesenteric		Inflammation	Chronic Active, Marked
Nose		Inflammation	Suppurative, Marked
Preputial Gland	Duct	Squamous Cell Carcinoma	
		Dilatation	Marked
		Inflammation	Suppurative, Mild
[Dilatation TGLS = 1-6.1]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 6-5.1]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Stom Forestom			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Stom Gland			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Testes	Seminif Tub	Degeneration	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 2,3-7]			
[Inflammation TGLS = 3-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Nose	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 282

TRT#: 20

SEX: Male

DAY ON TEST: 593

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	Epididymis
* Esophagus	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	Prostate, Ventral Lobe	* Salivary Glands
* Skin	* Thyroid Gland	* Trachea	

AUTO PRECLUDES DIAG.

Coagulating Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	
* Heart	Autolysis	Mild
	Cardiomyopathy	Minimal
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Autolysis	Moderate
	Nephropathy	Chronic, Mild
Note: TGL # 01 & 02 - NO MICROSCOPIC CORRELATE		
* Liver	Autolysis	Mild
	Hematopoietic Cell Proliferation	Minimal
* Lung	Autolysis	Mild
	Metaplasia	Osseous, Minimal
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
	Infiltration Cellular	Plasma Cell, Marked
* Lymph Node, Mesenteric	Inflammation	Granulomatous, Minimal
Preputial Gland	Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe	Inflammation	Suppurative, Minimal
Rete Testes	Dilatation	Mild
* Spleen	Autolysis	Moderate
	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 282	TRT#: 20	SEX: Male	DAY ON TEST: 593
	DOSE: F3 5PPM TO CTL	DISP: Natural Death	HISTO: 21320300282
ORGAN AND ACCOUNTABLE SITE STATUS			
[Autolysis TGLS = 3-5]			
Testes	Seminif Tub	Degeneration	Marked
* Thymus		Atrophy	Marked
		Autolysis	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 285	TRT#: 22	SEX: Male	DAY ON TEST: 601
	DOSE: F3 500PPM TO CTL	DISP: Natural Death	HISTO: 21320300285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	Bone, Femur	* Brain - Brain Stem
* Brain - Cerebellum	* Brain - Cerebrum	Epididymis	* Esophagus
* Heart	* Intestine Large, Colon	* Lung	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	Rete Testes	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	Testes	* Urinary Bladder

AUTO PRECLUDES DIAG.

Coagulating Gland	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 3-3]			
* Adrenal Medulla		Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-12]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
* Nose		Inflammation	Suppurative, Marked
* Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-6.1]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Seminal Vesicle		Atrophy	Moderate
* Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-5.1]			
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 285	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 601 HISTO: 21320300285
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 286

TRT#: 13

SEX: Male

DAY ON TEST: 644

DOSE: F1 100PPM/CTL

DISP: Natural Death

HISTO: 21320300286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Bone, Femur
Islets, Pancreatic
Parathyroid Gland
Salivary Glands
Urinary Bladder

Adrenal Medulla
Brain - Cerebellum
Mammary Gland
Pituitary Gland
Stomach, Forestomach

Blood Vessel
Epididymis
Nose
Prostate, Dorsal Lobe
Stomach, Glandular

Bone Marrow
Esophagus
Pancreas
Rete Testes
Trachea

AUTO PRECLUDES DIAG.

Coagulating Gland
Intestine Small, Ileum
Thyroid Gland

Intestine Large, Cecum
Intestine Small, Jejunum

Intestine Large, Colon
Lung

Intestine Small, Duodenum
Seminal Vesicle

OBSERVATIONS

Bone, Cranium
[Osteoma TGLS = 4-13]

Osteoma

Brain
Brain Stem
Cerebrum
Cerebrum
Cerebrum
Brain Stem
Cerebrum
Cerebrum

Compression
Compression
Ectopic Tissue
Gliosis
Hemorrhage
Hemorrhage
Mineralization

Moderate
Mild

Mild
Mild
Mild
Mild

[Compression TGLS = 3-8]
[Ectopic Tissue TGLS = 3-8]
[Gliosis TGLS = 3-8]
[Hemorrhage TGLS = 3-8]
[Mineralization TGLS = 3-8]

Heart

Autolysis
Cardiomyopathy
Autolysis
Nephropathy
Basophilic Focus

Mild
Minimal
Marked
Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 286	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 644 HISTO: 21320300286
ORGAN AND ACCOUNTABLE SITE STATUS			
Lung Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-6.1]			
Prostate, Ventral Lobe		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.1]			
Spleen		Autolysis	Mild
		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Bone, Cranium	Osteoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 290

TRT#: 13

SEX: Male

DAY ON TEST: 648

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy Vacuolization Cytoplasmic	Cystic, Mild Mild Mild
Brain	Cerebellum	Astrocytoma Malignant	
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst Nephropathy	Chronic, Moderate
[Cyst TGLS = 1-2]			
Liver	Biliar Tract	Clear Cell Focus Fibrosis Infiltration Cellular Vacuolization Cytoplasmic	Multiple Minimal Lymphocyte, Minimal Mild
Pancreas		Inflammation	Chronic Active, Mild
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- Brain Cerebellum Astrocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 290	TRT#: 13	SEX: Male	DAY ON TEST: 648
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300290

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 295	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 606 HISTO: 21320300295
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Epididymis	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Pancreas	Parathyroid Gland	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Small, Ileum

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
Brain	Brain Stem	Compression	Moderate
	Cerebellum	Hydrocephalus	Mild
	Cerebrum	Hydrocephalus	Mild
[Compression TGLS = 4-8]			
Coagulating Gland		Atrophy	Moderate
Esophagus		Hyperkeratosis	Marked
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Nose		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1-6.1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 295	TRT#: 19	SEX: Male	DAY ON TEST: 606
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300295
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-6.1]			
Prostate, Dorsal Lobe		Hyperplasia	Marked
		Inflammation	Suppurative, Marked
[Hyperplasia TGLS = 5-6]			
Prostate, Ventral Lobe		Degeneration	Mild
		Inflammation	Suppurative, Minimal
[Inflammation TGLS = 5-6]			
Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 2-6.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 296

TRT#: 19

SEX: Male

DAY ON TEST: 609

DOSE: F3 0 PPM

DISP: Natural Death

HISTO: 21320300296

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

* Adrenal Cortex
Bone, Femur
Coagulating Gland
* Harderian Gland
* Intestine Small, Duodenum
* Kidney
* Lymph Node, Mesenteric
* Parathyroid Gland
Prostate, Dorsal Lobe
* Seminal Vesicle
* Stomach, Glandular
* Trachea

* Adrenal Medulla
* Brain - Brain Stem
* Epididymis
* Heart
* Intestine Small, Ileum
* Liver
* Mammary Gland
* Pituitary Gland
Prostate, Ventral Lobe
* Skin
* Testes
* Urinary Bladder

Blood Vessel
* Brain - Cerebellum
* Esophagus
* Intestine Large, Cecum
* Intestine Small, Jejunum
* Lung
* Nose
* Preputial Gland
Rete Testes
* Spleen
* Thymus

* Bone Marrow
* Brain - Cerebrum
* Eye
* Intestine Large, Colon
* Islets, Pancreatic
* Lymph Node, Mandibular
* Pancreas
* Prostate
* Salivary Glands
* Stomach, Forestomach
* Thyroid Gland

OBSERVATIONS

* Intestine Large, Rectum

Leiomyosarcoma

[Leiomyosarcoma TGLS = 1-9.1+9.2+9.3]

PRIMARY CAUSE OF DEATH

- Intestine Large, Rectum Leiomyosarcoma

Animal Note: Pathologist noted : Only Rectum mass processed due to advanced autolysis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 302	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 655 HISTO: 21320300302
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebrum
Epididymis	Esophagus	Parathyroid Gland	Rete Testes
Skin	Thyroid Gland	Trachea	Urethra
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Brain - Cerebellum
Coagulating Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Nose	Pancreas	Pituitary Gland
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
OBSERVATIONS			
Kidney		Autolysis	Marked
	Pelvis	Hyperplasia	Mild
	Pelvis	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Mild
Preputial Gland	Duct	Dilatation	Marked
Prostate, Dorsal Lobe		Autolysis	Marked
		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Autolysis	Marked
		Inflammation	Suppurative, Marked
Spleen		Autolysis	Moderate
		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-7]			
Thymus		Atrophy	Marked
		Autolysis	Marked
Urethra			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Urinary Bladder		Autolysis	Moderate
	Transit Epithe	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 302	TRT#: 12	SEX: Male	DAY ON TEST: 655
	DOSE: F1 5PPM/CTL	DISP: Natural Death	HISTO: 21320300302
ORGAN AND ACCOUNTABLE SITE STATUS			
		Inflammation	Chronic Active, Moderate
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 312

TRT#: 20

SEX: Male

DAY ON TEST: 617

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	Bone, Femur	* Brain - Brain Stem
* Brain - Cerebellum	* Brain - Cerebrum	Epididymis	* Esophagus
* Heart	* Islets, Pancreatic	Rete Testes	* Salivary Glands
* Skin	Testes	* Urinary Bladder	

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	Coagulating Gland	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Liver	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pituitary Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Eye			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
* Kidney		Nephropathy	Chronic, Moderate
* Lung		Inflammation	Chronic, Mild
[Inflammation TGLS = 3-10]			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-12]			
* Pancreas	Acinar Cell	Degeneration	Mild
* Parathyroid Gl			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Preputial Gland	Duct	Dilatation	Moderate
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 318	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 662 HISTO: 21320300318
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Parathyroid Gland	Pituitary Gland		
AUTO PRECLUDES DIAG.			
Eye	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular
Lymph Node, Mesenteric	Mammary Gland	Nose	Rete Testes
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea			
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Minimal
[Hypertrophy TGLS = 7-3]			
Bone Marrow	Myeloid Cell	Hyperplasia	Marked
Coagulating Gland		Carcinoma	Metastatic (Prostate)
Epididymis		Carcinoma	Metastatic (Prostate)
Eye			
Note: TGL # 12 - NO MICROSCOPIC CORRELATE			
Intestine Large, Cecum		Autolysis	Marked
	Serosa	Carcinoma	Metastatic (Prostate)
Intestine Large, Colon		Autolysis	Marked
	Serosa	Carcinoma	Metastatic (Prostate)
[Carcinoma TGLS = 14-9]			
Intestine Small, Duodenum		Autolysis	Marked
	Serosa	Carcinoma	Metastatic (Prostate)
Islets, Pancreatic		Carcinoma	Metastatic (Prostate)
Kidney	Pelvis	Dilatation	Marked
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Marked
[Dilatation TGLS = 5-2]			
[Hyperplasia TGLS = 5-2]			
[Nephropathy TGLS = 5-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 318	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 662 HISTO: 21320300318
ORGAN AND ACCOUNTABLE SITE STATUS			
Liver [Carcinoma TGLS = 6-5]		Carcinoma	Metastatic (Prostate)
Lung [Carcinoma TGLS = 15-10]		Carcinoma Infiltration Cellular	Metastatic (Prostate) Histiocyte, Mild
Lym Node Mand Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lym Node Mesen Note: TGL # 13 - NO MICROSCOPIC CORRELATE			
Pancreas [Carcinoma TGLS = 3-5.3]		Carcinoma	Metastatic (Prostate)
Preputial Gland [Inflammation TGLS = 1-6.1]	Duct	Dilatation Inflammation	Marked Suppurative, Marked
Prostate, Dorsal Lobe		Carcinoma	
Prostate, Ventral Lobe		Carcinoma	
Seminal Vesicle		Carcinoma	Metastatic (Prostate)
Skeletal Muscle [Carcinoma TGLS = 8-13]		Carcinoma	Metastatic (Prostate)
Skin [Inflammation TGLS = 10,11-5.1+5.2]		Inflammation	Chronic Active, Moderate
Spleen		Autolysis Depletion Lymphoid Pigmentation	Mild Marked Marked
Testes Capsule		Autolysis Carcinoma	Marked Metastatic (Prostate)
Thymus		Atrophy	Marked
Tissue NOS Note: PATHOLOGIST NOTED: TGL # 4 LOCATED ON SLIDE #'S 6B(6.2),6C(6.3),6D(6.4),6E(6.5),&6F(6.6) ONLY [Carcinoma TGLS = 4-6.2+6.3+6.4+6.5+6.6]	Abdominal	Carcinoma	Metastatic (Prostate)
Urinary Bladder Serosa		Carcinoma	Metastatic (Prostate)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 318

TRT#: 11

SEX: Male

DAY ON TEST: 662

DOSE: F1 500PPM

DISP: Natural Death

HISTO: 21320300318

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 16-2]

PRIMARY CAUSE OF DEATH

- Liver Carcinoma Prostate

Animal Note: TGL # 09 - No section taken (cavity)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 319	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 665 HISTO: 21320300319
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Cerebellum	Epididymis
Esophagus	Islets, Pancreatic	Parathyroid Gland	Preputial Gland
Prostate, Dorsal Lobe	Rete Testes	Salivary Glands	Urinary Bladder
AUTO PRECLUDES DIAG.			
Bone Marrow	Coagulating Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Mammary Gland
Nose	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea		
OBSERVATIONS			
Adrenal Cortex		Autolysis	Moderate
		Leukemia Mononuclear	
Adrenal Medulla		Leukemia Mononuclear	
Brain	Brain Stem	Gliosis	Mild
	Cerebrum	Hemorrhage	Mild
	Cerebrum	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Autolysis	Marked
		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
Lung		Leukemia Mononuclear	
Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
Lymph Node, Mesenteric		Autolysis	Marked
		Leukemia Mononuclear	
Pancreas		Autolysis	Moderate
	Acinar Cell	Degeneration	Mild
Pituitary Gland		Autolysis	Mild
	Pars Distalis	Hyperplasia	Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 319	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 665 HISTO: 21320300319
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Autolysis	Mild
		Degeneration	Mild
Skin		Fibroma	
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
[Fibroma TGLS = 5-5.2]			
[Hyperkeratosis TGLS = 4-5.1]			
[Hyperplasia TGLS = 4-5.1]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
Testes	Seminif Tub	Degeneration	Marked
Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Liver Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 320	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 665 HISTO: 21320300320
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Parathyroid Gland	Rete Testes	Skin	Stomach, Forestomach
Testes			
AUTO PRECLUDES DIAG.			
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Mammary Gland	Salivary Glands	Seminal Vesicle
Stomach, Glandular	Trachea	Urinary Bladder	
OBSERVATIONS			
Bone Marrow		Hypocellularity	Moderate
Brain	Brain Stem	Compression	Marked
[Compression TGLS = 3-8]			
Esophagus		Hyperkeratosis	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Autolysis	Marked
		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Autolysis	Moderate
		Inflammation	Suppurative, Moderate
Lymph Node, Mandibular		Autolysis	Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Autolysis	Mild
		Inflammation	Granulomatous, Minimal
Nose		Inflammation	Suppurative, Mild
Pancreas		Autolysis	Mild
	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 320	TRT#: 11	SEX: Male	DAY ON TEST: 665
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300320

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]			
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Autolysis	Moderate
		Inflammation	Suppurative, Moderate
Spleen		Pigmentation	Marked
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Adenoma	
		Autolysis	Marked

[Adenoma TGLS = 2-3]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 322	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 669 HISTO: 21320300322
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Epididymis	Heart
Islets, Pancreatic	Rete Testes		
MISSING			
Parathyroid Gland	Preputial Gland		
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Coagulating Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Lymph Node, Mesenteric	Mammary Gland
Nose	Prostate, Dorsal Lobe	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Brain	Brain Stem	Autolysis	Moderate
	Cerebellum	Autolysis	Moderate
	Cerebrum	Autolysis	Moderate
	Brain Stem	Compression	Mild
[Compression TGLS = 2-8]			
Esophagus		Hyperkeratosis	Mild
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 322	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 669 HISTO: 21320300322
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 3-3]			
Preputial GI			
Note: PATHOLOGIST NOTED: MISSING AT TRIM; CARCASS CHECKED			
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 4,5-5.3+5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Autolysis	Marked
Note: PATHOLOGIST NOTED: NORMAL SECTION OF TESTES WAS AUTOLYSIS PRECLUDES DIAGNOSIS			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 326

TRT#: 11

SEX: Male

DAY ON TEST: 669

DOSE: F1 500PPM

DISP: Moribund

HISTO: 21320300326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Cerebellum	Coagulating Gland	Epididymis	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow		Hypocellularity	Mild
Brain	Brain Stem	Compression	Moderate
	Cerebrum	Hydrocephalus	Mild
	Cerebrum	Infiltration Cellular	Lymphocyte, Mild
[Compression TGLS = 4-8]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Lactation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Degeneration	Mild
[Degeneration TGLS = 2-6]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 328	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Moribund	DAY ON TEST: 670 HISTO: 21320300328
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Liver
Lung	Parathyroid Gland	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 1-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-9]			
Nose		Inflammation	Suppurative, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Skin		Hemorrhage	Mild
		Inflammation	Chronic Active, Marked
[Hemorrhage TGLS = 3-5.1]			
[Inflammation TGLS = 3-5.1]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 329

TRT#: 12

SEX: Male

DAY ON TEST: 669

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Small, Jejunum

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Heart		Cardiomyopathy	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 1-6.1]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Note: TGL # 02 - No Microscopic Correlate			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 329	TRT#: 12	SEX: Male	DAY ON TEST: 669
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300329

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 336

TRT#: 22

SEX: Male

DAY ON TEST: 629

DOSE: F3 500PPM TO CTL

DISP: Natural Death

HISTO: 21320300336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	Bone, Femur	* Brain - Brain Stem
* Brain - Cerebellum	* Brain - Cerebrum	Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland
* Stomach, Forestomach	* Stomach, Glandular	Testes	

MISSING

Rete Testes

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	Coagulating Gland	* Heart
* Kidney	* Lung	* Mammary Gland	* Nose
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	* Salivary Glands
Seminal Vesicle	* Spleen	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Autolysis	Moderate
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Autolysis	Marked
		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-12]			
* Pancreas		Autolysis	Mild
	Acinar Cell	Degeneration	Mild
Preputial Gland		Autolysis	Moderate
	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
* Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
[Hyperkeratosis TGLS = 2,3-5.1+5.2]			
[Hyperplasia TGLS = 2,3-5.1+5.2]			
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 336	TRT#: 22	SEX: Male	DAY ON TEST: 629
	DOSE: F3 500PPM TO CTL	DISP: Natural Death	HISTO: 21320300336
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 342	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 675 HISTO: 21320300342
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Cyst Hyperplasia	Mild
[Cyst TGLS = 5-3] [Hyperplasia TGLS = 3-3]			
Bone Marrow	Myeloid Cell	Hyperplasia	Marked
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Hyperplasia Infiltration Cellular	Lymphoid, Mild Plasma Cell, Moderate
[Hyperplasia TGLS = 2-12] [Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Nose	Upper Molar	Inflammation	Chronic Active, Minimal
Oral Mucosa		Osteosarcoma	
[Osteosarcoma TGLS = 6-13.1]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 342	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 675 HISTO: 21320300342
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Sarcoma	
[Sarcoma TGLS = 4-5]			
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Oral Mucosa Osteosarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 343	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 21320300343
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Pigmentation	Mild
		Vacuolization Cytoplasmic	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE [Cyst TGLS = 2-2]			
Liver		Inflammation	Chronic Active, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGSL = 1-13] [Infiltration Cellular TGSL = 1-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Parathyroid GI			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Degeneration	Minimal
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 343	TRT#: 14	SEX: Male	DAY ON TEST: 674
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300343
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 6-6]			
Skin		Hemorrhage	Moderate
		Inflammation	Chronic Active, Marked
		Inflammation	Suppurative, Marked
		Necrosis	Moderate
[Hemorrhage TGLS = 5-5.2]			
[Inflammation TGLS = 5-5.2]			
[Inflammation TGLS = 4-5.1]			
[Necrosis TGLS = 4-5.1]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 346

TRT#: 13

SEX: Male

DAY ON TEST: 676

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 4-6.1]			
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Marked
Pancreas	Acinar Cell	Degeneration	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2,3-5.1+5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 347	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 626 HISTO: 21320300347
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Bone		Chordoma	
[Chordoma TGLS = 2-13]			
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Tension Lipidosis	Moderate
Note: PATHOLOGIST NOTED: TGL # 01 - PORTAL BLOOD VESSEL NORMAL STRUCTURE			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
[Tension Lipidosis TGLS = 4-5.5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Prostate, Dorsal Lobe		Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 3-5.1]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Bone	Chordoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 348

TRT#: 14

SEX: Male

DAY ON TEST: 675

DOSE: F1 500PPM/CTL

DISP: Natural Death

HISTO: 21320300348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Heart	Intestine Large, Colon
Intestine Small, Duodenum	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large, Cecum	Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Coagulating Gland		Atrophy	Marked
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
		Pigmentation	Mild
Preputial Gland	Parenchym Cell	Degeneration	Marked
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 2-6.1]			
Spleen		Depletion Lymphoid	Marked
		Hematopoietic Cell Proliferation Erythrocytic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 348	TRT#: 14	SEX: Male	DAY ON TEST: 675
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300348
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Pigmentation	Marked
		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 349

TRT#: 13

SEX: Male

DAY ON TEST: 678

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Coagulating Gland	Epididymis	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lymph Node, Mandibular	Lymph Node, Mesenteric	Parathyroid Gland
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adren Cortex

Note: TGL # 02 - NO MICROSCOPIC CORRELATE

Adren Medulla

Note: TGL # 02 - NO MICROSCOPIC CORRELATE

Brain

Brain Stem

Compression

Mild

Cerebellum

Hydrocephalus

Mild

Cerebrum

Hydrocephalus

Mild

[Compression TGLS = 5-8]

Heart

Cardiomyopathy

Minimal

Islets, Pancreatic

Hyperplasia

Mild

Kidney

Nephropathy

Chronic, Mild

Note: TGL # 03 - NO MICROSCOPIC CORRELATE

Liver

Bile Duct

Hyperplasia

Minimal

Lung

Infiltration Cellular

Histiocyte, Mild

[Infiltration Cellular TGLS = 9-10]

Mammary Gland

Lactation

Mild

Mesentery

Fat

Necrosis

Moderate

[Necrosis TGLS = 7-13]

Nose

Foreign Body

Chronic Active, Mild

Inflammation

Pancreas

Acinar Cell

Degeneration

Mild

Pituitary Gland

Pars Distalis

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 349	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 678 HISTO: 21320300349
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-6]			
Skin		Inflammation Lipoma	Chronic Active, Marked
[Inflammation TGLS = 6-5.2]			
[Lipoma TGLS = 8-5.1]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 351	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 635 HISTO: 21320300351
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Nose	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Skin	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain [Compression TGLS = 2-8] Coagulat GI Note: TGL # 03 - NO MICROSCOPIC CORRELATE	Brain Stem	Compression	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Accumulation, Hyaline Droplet	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Liver		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Minimal
Spleen		Pigmentation	Marked
Stomach, Forestomach	Submucosa	Edema	Marked
		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 351	TRT#: 19	SEX: Male	DAY ON TEST: 635
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300351
ORGAN AND ACCOUNTABLE SITE STATUS			
[Edema TGLS = 4-9]	Mucosa	Ulcer	Mild
[Inflammation TGLS = 4-9]			
[Ulcer TGLS = 4-9]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 356

TRT#: 22

SEX: Male

DAY ON TEST: 638

DOSE: F3 500PPM TO CTL

DISP: Natural Death

HISTO: 21320300356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
Bone, Femur
Epididymis
* Parathyroid Gland
* Thyroid Gland

* Adrenal Medulla
* Brain - Brain Stem
* Esophagus
* Pituitary Gland
* Trachea

Blood Vessel
* Brain - Cerebellum
* Heart
Prostate, Ventral Lobe
* Urinary Bladder

* Bone Marrow
* Brain - Cerebrum
* Nose
* Salivary Glands

AUTO PRECLUDES DIAG.

Coagulating Gland
* Intestine Small, Ileum
* Lung
Seminal Vesicle

* Intestine Large, Cecum
* Intestine Small, Jejunum
* Lymph Node, Mesenteric
* Stomach, Forestomach

* Intestine Large, Colon
* Islets, Pancreatic
* Pancreas
* Stomach, Glandular

* Intestine Small, Duodenum
* Liver
Rete Testes

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Kidney

Lacrimal Gland
[Ectopic Harderian TGLS = 2-13]
* Lym Node Mesen
Note: TGL # 06 - NO MICROSCOPIC CORRELATE
* Lymph Node, Mandibular
[Infiltration Cellular TGLS = 1-12]
Preputial Gland

[Inflammation TGLS = 3-6.1]
Prostate, Dorsal Lobe
* Skin

[Angiectasis TGLS = 4-5.1]
[Inflammation TGLS = 4-5.1]

Cortex

Parenchym Cell

Autolysis
Cyst
Ectopic Harderian

Infiltration Cellular

Degeneration
Inflammation

Inflammation
Angiectasis
Inflammation
Inflammation

Moderate

Plasma Cell, Marked

Minimal
Suppurative, Moderate

Suppurative, Minimal
Marked
Suppurative, Marked
Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 356	TRT#: 22	SEX: Male	DAY ON TEST: 638
	DOSE: F3 500PPM TO CTL	DISP: Natural Death	HISTO: 21320300356
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 5-5.2]			
* Spleen		Autolysis	Moderate
		Pigmentation	Mild
Testes		Autolysis	Moderate
	Seminif Tub	Degeneration	Mild
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 359	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 682 HISTO: 21320300359
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Islets, Pancreatic	Liver
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
MISSING			
Thymus			
AUTO PRECLUDES DIAG.			
Intestine Small, Ileum Intestine Small, Jejunum			
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
		Metaplasia	Osseous, Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 5-9]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Marked
	Duct	Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 359	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 682 HISTO: 21320300359
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 1-6.1] [Dilatation TGLS = 1-6.1] [Inflammation TGLS = 1-6.1] Prostate, Dorsal Lobe Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-5.2] [Inflammation TGLS = 4-5.1] Spleen Testes		Inflammation Inflammation Inflammation	Suppurative, Minimal Suppurative, Marked Chronic Active, Mild
Seminif Tub		Pigmentation Degeneration Mesothelioma Benign	Minimal Minimal
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 361	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 685 HISTO: 21320300361
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Coagulating Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Medulla	Bilateral	Hyperplasia	Minimal
Brain	Brain Stem	Compression	Moderate
	Brain Stem	Hemorrhage	Mild
	Cerebellum	Hemorrhage	Moderate
	Cerebrum	Hemorrhage	Mild
[Compression TGLS = 3-8]			
[Hemorrhage TGLS = 3-8]			
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 6-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Moderate
[Hemorrhage TGLS = 1-12]			
[Hyperplasia TGLS = 1-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 361	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 685 HISTO: 21320300361
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Infiltration Cellular Adenoma	Lymphocyte, Minimal
Preputial Gland	Parenchym Cell	Degeneration Inflammation	Mild Suppurative, Marked
Prostate, Dorsal Lobe		Degeneration Inflammation	Mild Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration Inflammation	Moderate Suppurative, Moderate
Skin [Inflammation TGLS = 5-5.1]		Inflammation	Suppurative, Marked
Spleen		Pigmentation	Marked
Testes [Degeneration TGLS = 2-7]	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 363	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Moribund	DAY ON TEST: 688 HISTO: 21320300363
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Heart	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
AUTO PRECLUDES DIAG.			
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum			
OBSERVATIONS			
Adrenal Cortex		Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Suppurative, Marked
		Inflammation	Chronic Active, Marked
		Necrosis	Marked
[Inflammation TGLS = 3-5.2]			
[Inflammation TGLS = 2-5.1]			
[Necrosis TGLS = 2-5.1]			
Testes	Seminif Tub	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 363	TRT#: 9	SEX: Male	DAY ON TEST: 688
	DOSE: F1 5PPM	DISP: Moribund	HISTO: 21320300363

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 366	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 689 HISTO: 21320300366
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Epididymis	Esophagus	Islets, Pancreatic
Lung	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Spleen
Testes			
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Coagulating Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Lymph Node, Mesenteric	Prostate, Ventral Lobe
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Lym Node Mesen			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 1-12]			
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Autolysis	Moderate
		Inflammation	Suppurative, Mild
Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
[Hyperkeratosis TGLS = 2-5.1]			
[Hyperplasia TGLS = 2-5.1]			
[Inflammation TGLS = 3-5.2]			
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 366	TRT#: 12	SEX: Male	DAY ON TEST: 689
	DOSE: F1 5PPM/CTL	DISP: Natural Death	HISTO: 21320300366

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 367

TRT#: 21

SEX: Male

DAY ON TEST: 645

DOSE: F3 100PPM TO CTL

DISP: Moribund

HISTO: 21320300367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla
Brain - Brain Stem
Epididymis
Intestine Small, Duodenum
Lung
Parathyroid Gland
Salivary Glands
Stomach, Glandular
Urinary Bladder

Blood Vessel
Brain - Cerebellum
Esophagus
Intestine Small, Ileum
Lymph Node, Mesenteric
Pituitary Gland
Seminal Vesicle
Testes

Bone Marrow
Brain - Cerebrum
Intestine Large, Cecum
Intestine Small, Jejunum
Nose
Prostate, Dorsal Lobe
Spleen
Thyroid Gland

Bone, Femur
Coagulating Gland
Intestine Large, Colon
Islets, Pancreatic
Pancreas
Rete Testes
Stomach, Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Cortex
Heart
Kidney
Liver
Lymph Node, Mandibular
Preputial Gland
Prostate, Ventral Lobe
Skin

Capsule

Vacuolization Cytoplasmic
Cardiomyopathy
Fatty Change
Clear Cell Focus
Infiltration Cellular
Squamous Cell Carcinoma
Infiltration Cellular
Squamous Cell Carcinoma

Mild
Minimal

Plasma Cell, Moderate

Lymphocyte, Minimal

[Squamous Cell Carcinoma TGLS = 1-5.1]

Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Skin Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 368	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 689 HISTO: 21320300368
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Small, Duodenum	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Skin	Urinary Bladder
MISSING			
Rete Testes			
AUTO PRECLUDES DIAG.			
Coagulating Gland	Islets, Pancreatic	Lymph Node, Mandibular	Seminal Vesicle
Testes	Thyroid Gland	Trachea	
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
Epididymis		Polyarteritis	Moderate
Heart		Polyarteritis	Mild
Intestine Large, Cecum		Polyarteritis	Marked
Intestine Large, Colon		Polyarteritis	Moderate
Intestine Small, Ileum		Polyarteritis	Mild
Intestine Small, Jejunum		Polyarteritis	Mild
Kidney		Autolysis	Mild
		Nephropathy	Chronic, Mild
		Polyarteritis	Mild
		Ectopic Harderian	
Lacrimal Gland			
[Ectopic Harderian TGLS = 1-13]			
Liver		Autolysis	Mild
		Polyarteritis	Marked
[Polyarteritis TGLS = 4-5]			
Lung	Artery	Mineralization	Minimal
		Polyarteritis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 368	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 689 HISTO: 21320300368
ORGAN AND ACCOUNTABLE SITE STATUS			
[Mineralization TGLS = 6-10]			
Lymph Node, Mesenteric		Polyarteritis	Marked
[Polyarteritis TGLS = 3-9]			
Pancreas		Autolysis	Marked
		Polyarteritis	Marked
[Polyarteritis TGLS = 2-13.1]			
Prostate, Dorsal Lobe		Polyarteritis	Mild
Prostate, Ventral Lobe		Inflammation	Marked
		Polyarteritis	Mild
Sem Ves			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Spleen		Autolysis	Mild
	Capsule	Fibrosis	Mild
		Hematopoietic Cell Proliferation	Moderate
	Adventitia	Polyarteritis	Moderate
[Hematopoietic Cell Proliferation TGLS = 5-5]			
Stomach, Forestomach		Polyarteritis	Mild
Stomach, Glandular		Polyarteritis	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Liver	Polyarteritis	
Animal Note: TGL # 02 - Noted grossly as Lymph Node, Pancreatic was Pancreas			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 374

TRT#: 22

SEX: Male

DAY ON TEST: 641

DOSE: F3 500PPM TO CTL

DISP: Natural Death

HISTO: 21320300374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
Coagulating Gland
* Lung
Rete Testes
* Stomach, Glandular

* Adrenal Medulla
Epididymis
* Parathyroid Gland
* Salivary Glands
Testes

Blood Vessel
* Esophagus
* Pituitary Gland
* Skin
* Thyroid Gland

Bone, Femur
* Heart
Prostate, Ventral Lobe
* Stomach, Forestomach
* Urinary Bladder

AUTO PRECLUDES DIAG.

* Bone Marrow
* Intestine Small, Ileum
* Trachea

* Intestine Large, Cecum
* Intestine Small, Jejunum

* Intestine Large, Colon
* Mammary Gland

* Intestine Small, Duodenum
* Nose

OBSERVATIONS

* Brain

* Islets, Pancreatic
* Kidney
* Liver

* Lymph Node, Mandibular
* Lymph Node, Mesenteric
* Pancreas
Preputial Gland

Prostate, Dorsal Lobe
Seminal Vesicle
[Atrophy TGLS = 1-6.1]
* Spleen
* Thymus

Brain Stem
Cerebellum
Cerebrum

Biliar Tract
Bile Duct

Acinar Cell
Parenchym Cell

Reticulosis Malignant
Reticulosis Malignant
Reticulosis Malignant
Hyperplasia
Nephropathy
Fibrosis
Hyperplasia
Infiltration Cellular
Inflammation
Degeneration
Degeneration
Inflammation
Inflammation
Atrophy

Pigmentation
Atrophy

Mild
Chronic, Minimal
Minimal
Minimal
Plasma Cell, Mild
Granulomatous, Mild
Mild
Mild
Suppurative, Marked
Suppurative, Mild
Mild

Moderate
Marked

PRIMARY CAUSE OF DEATH

- Brain Brain Stem Reticulosis Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 381	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 698 HISTO: 21320300381
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Rete Testes	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Vacuolization Cytoplasmic	Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Marked
Coagulating Gland		Atrophy	Mild
[Atrophy TGLS = 2-6.1]			
Ear		Neural Crest Tumor	
[Neural Crest Tumor TGLS = 5-13]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 6-2]			
Liver	Biliar Tract	Fibrosis	Minimal
		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Moderate
Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 1-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 381	TRT#: 14	SEX: Male	DAY ON TEST: 698
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300381
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
	[Inflammation TGLS = 4-5.1]		
	[Necrosis TGLS = 4-5.1]		
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 384

TRT#: 14

SEX: Male

DAY ON TEST: 699

DOSE: F1 500PPM/CTL

DISP: Moribund

HISTO: 21320300384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Coagulating Gland	Epididymis	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
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OBSERVATIONS

Brain			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Lung	Artery	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Lactation	Mild
Pancreas		Pigmentation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Preputial Gland	Parenchym Cell	Degeneration	Marked
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-5.1]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 384	TRT#: 14	SEX: Male	DAY ON TEST: 699
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300384

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 385	TRT#: 8	SEX: Male	DAY ON TEST: 697
	DOSE: F1 0PPM	DISP: Moribund	HISTO: 21320300385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
[Nephropathy TGLS = 3-2]			
Liver		Infiltration Cellular	Lymphocyte, Minimal
		Tension Lipidosis	Moderate
[Tension Lipidosis TGLS = 5-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
[Infiltration Cellular TGLS = 9-10.2]			
Lymph Node	Adventitia, Renal	Hemorrhage	Marked
	Renal	Pigmentation	Mild
[Hemorrhage TGLS = 4-13]			
[Pigmentation TGLS = 4-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 1-12]			
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 385	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Moribund	DAY ON TEST: 697 HISTO: 21320300385
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Hyperplasia Inflammation	Lymphoid, Moderate Granulomatous, Mild
[Hyperplasia TGLS = 7-9] [Inflammation TGLS = 7-9]			
Nose	Squam Epithel Upper Molar	Hyperkeratosis Hyperplasia Inflammation Ulcer	Mild Moderate Chronic Active, Mild Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation Necrosis	Suppurative, Marked Mild
[Inflammation TGLS = 6-5.1] [Necrosis TGLS = 6-5.1]			
Testes	Seminif Tub	Degeneration	Mild
[Degeneration TGLS = 2-7]			
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 386	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 659 HISTO: 21320300386
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Nose
Parathyroid Gland	Preputial Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Cyst	
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Urin Bladder			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 386	TRT#: 21	SEX: Male	DAY ON TEST: 659
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300386
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 387

TRT#: 11

SEX: Male

DAY ON TEST: 705

DOSE: F1 500PPM

DISP: Moribund

HISTO: 21320300387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Bone Marrow	Mammary Gland
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OBSERVATIONS

Adrenal Cortex	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-3]		
Adrenal Medulla	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-3]		
Coagulating Gland	Atrophy	Moderate
Epididymis	Degeneration	Mild
Esophagus	Hyperkeratosis	Mild
Heart	Cardiomyopathy	Minimal
Islets, Pancreatic	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 22-5]		
Kidney	Accumulation, Hyaline Droplet	Marked
	Lymphoma Malignant	
	Nephropathy	Chronic, Marked
[Lymphoma Malignant TGLS = 21-2+2.1]		
Liver	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 11,12,13,14,15-5.2+5.3+5.1+5.4+5.5]		
Lung	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 16,17,18,19,20-10+10.1]		
Lymph Node	Axillary	Lymphoma Malignant
	Deep Cervical	Lymphoma Malignant
	Lumbar	Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 387	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 705 HISTO: 21320300387
ORGAN AND ACCOUNTABLE SITE STATUS			
	Mediastinal	Lymphoma Malignant	
	Popliteal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-13.2]			
[Lymphoma Malignant TGLS = 7-13.3]			
[Lymphoma Malignant TGLS = 4-13]			
[Lymphoma Malignant TGLS = 8-13.4]			
[Lymphoma Malignant TGLS = 5-13.1]			
Lymph Node, Mandibular		Lymphoma Malignant	
Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 10-9.1]			
Nose	Upper Molar	Inflammation	Chronic Active, Mild
Pancreas		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 22-5]			
Pituitary Gland		Lymphoma Malignant	
Preputial Gland		Abscess	Marked
		Squamous Cell Carcinoma	
[Abscess TGLS = 1-6.2]			
[Squamous Cell Carcinoma TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Salivary Glands		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-12]			
Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 24-6.1]			
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 23-5.6+5.7]			
Spleen		Hematopoietic Cell Proliferation	Marked
		Lymphoma Malignant	
[Hematopoietic Cell Proliferation TGLS = 9-5]			
[Lymphoma Malignant TGLS = 9-5]			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 387	TRT#: 11	SEX: Male	DAY ON TEST: 705
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300387

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	- Liver Lymphoma Malignant
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 388	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 702 HISTO: 21320300388
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Liver	Lung	Lymph Node, Mandibular	Pancreas
Preputial Gland	Salivary Glands	Trachea	
MISSING			
Mammary Gland	Rete Testes	Thymus	
AUTO PRECLUDES DIAG.			
Blood Vessel	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland			
OBSERVATIONS			
Bone Marrow		Autolysis	Mild
		Hypocellularity	Marked
		Inflammation	Suppurative, Marked
Coagulating Gland		Hyperplasia	Moderate
Islets, Pancreatic		Autolysis	Moderate
Kidney	Cortex	Cyst	
	Pelvis	Dilatation	Mild
	Pelvis	Hyperplasia	Mild
	Pelvis	Inflammation	Suppurative, Marked
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
[Dilatation TGLS = 3-2]			
[Hyperplasia TGLS = 2-2]			
[Inflammation TGLS = 2-2]			
[Mineralization TGLS = 2-2]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 388	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 702 HISTO: 21320300388
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe	Pars Distalis	Hyperplasia Autolysis Inflammation	Mild Marked Suppurative, Marked
Prostate, Ventral Lobe		Autolysis Inflammation	Marked Suppurative, Marked
[Inflammation TGLS = 7-6]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5,6-5.1+5.2]			
Spleen		Autolysis Pigmentation	Moderate Marked
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Urinary Bladder		Autolysis Dilatation Hemorrhage	Moderate Marked Moderate
[Dilatation TGLS = 1-2]			
[Hemorrhage TGLS = 1-2]			
PRIMARY CAUSE OF DEATH	- Kidney Pelvis Inflammation		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 391	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 703 HISTO: 21320300391
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Mammary Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Eye	Cornea	Degeneration	Marked
	Antr Chamber	Hemorrhage	Marked
	Antr Chamber	Inflammation	Suppurative, Marked
	Cornea	Inflammation	Suppurative, Marked
	Cornea	Ulcer	Marked
[Degeneration TGLS = 3-13]			
[Hemorrhage TGLS = 3-13]			
[Inflammation TGLS = 3-13]			
[Inflammation TGLS = 3-13]			
[Ulcer TGLS = 3-13]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4,5-10.1]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Nose		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 391	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 703 HISTO: 21320300391
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Squamous Cell Carcinoma	
Parathyroid Gland		Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Cyst	
		Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
[Degeneration TGLS = 1-6.1]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Rete Testes		Dilatation	Minimal
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Nose	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 396	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 705 HISTO: 21320300396
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Harderian Gland	Nose	Parathyroid Gland	Preputial Gland
Rete Testes	Salivary Glands	Stomach, Forestomach	

AUTO PRECLUDES DIAG.

Adrenal Cortex	Adrenal Medulla	Coagulating Gland	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mesenteric	Mammary Gland	Pancreas	Seminal Vesicle
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adren Cortex			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Adren Medulla			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Heart		Bacterium	Marked
		Inflammation	Suppurative, Marked
	Myocardium	Necrosis	Marked
		Thrombosis	Marked
Kidney		Autolysis	Moderate
	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
[Cyst TGLS = 10-2]			
Lung		Autolysis	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Mild
[Metaplasia TGLS = 9-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 396	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 705 HISTO: 21320300396
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 1-12]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Prostate, Dorsal Lobe		Autolysis	Mild
		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Autolysis	Mild
		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
[Inflammation TGLS = 3,4-5.2+5.3]			
[Necrosis TGLS = 3-5.2]			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 8-5.1]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		
CONTRIBUTORY CAUSE OF DEATH	- Heart Bacterium;Heart Inflammation;Heart Myocardium Necrosis;Heart Thrombosis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 398

TRT#: 19

SEX: Male

DAY ON TEST: 662

DOSE: F3 0 PPM

DISP: Moribund

HISTO: 21320300398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lymph Node, Mesenteric	Mammary Gland	Parathyroid Gland
Preputial Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Adrenal Medulla		Hyperplasia	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
	Pelvis	Dilatation	Mild
		Nephropathy	Chronic, Mild
[Dilatation TGLS = 3-2.1]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Skin		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-5.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:51

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 398	TRT#: 19	SEX: Male	DAY ON TEST: 662
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300398
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Skin	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 400

TRT#: 14

SEX: Male

DAY ON TEST: 711

DOSE: F1 500PPM/CTL

DISP: Moribund

HISTO: 21320300400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Parathyroid Gland	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node, Mesenteric

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
		Developmental Malformation	
Coagulating Gland			
[Developmental Malformation TGLS = 4-6.2]			
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver		Necrosis	Minimal
Lung	Artery	Mineralization	Minimal
[Mineralization TGLS = 7-10]			
Lym Node Mesen			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 400	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 711 HISTO: 21320300400
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-6.1]			
Prostate, Ventral Lobe		Degeneration	Mild
		Hyperplasia	Mild
Seminal Vesicle		Atrophy	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-5.1]			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	- Preputial Gland Squamous Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 401

TRT#: 11

SEX: Male

DAY ON TEST: 711

DOSE: F1 500PPM

DISP: Moribund

HISTO: 21320300401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adren Medulla			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Coagulating Gland		Infiltration Cellular	Lymphocyte, Mild
Epididymis		Degeneration	Moderate
		Hypospermia	Marked
[Degeneration TGLS = 8-6.1]			
[Hypospermia TGLS = 8-6.1]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 4-5]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 5-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Basophilic Focus	Multiple
		Clear Cell Focus	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 401	TRT#: 11	SEX: Male	DAY ON TEST: 711
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300401
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Bile Duct	Hyperplasia	Minimal
	Acinar Cell	Degeneration	Moderate
Preputial Gland	Parenchym Cell	Inflammation	Chronic, Moderate
		Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Rete Testes		Dilatation	Mild
Spleen		Pigmentation	Moderate
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Testes	Seminif Tub	Degeneration	Marked
		Polyarteritis	Mild
[Degeneration TGLS = 2-7]			
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
PRIMARY CAUSE OF DEATH	- Islets, Pancreatic Carcinoma		
Animal Note: TGL # 04 - Noted grossly as Lymph Node, Pancreatic was Islets Pancreas			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 402	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 666 HISTO: 21320300402
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 2-6.2]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 3-2]			
Liver		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-6.1]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH			
- Preputial Gland Squamous Cell Carcinoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 403	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 665 HISTO: 21320300403
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Mammary Gland
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
		Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Nose	Upper Molar	Inflammation	Chronic Active, Marked
		Inflammation	Suppurative, Marked
	Goblet Cell	Metaplasia	Mild
		Metaplasia	Squamous, Moderate
	Upper Molar	Necrosis	Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Parathyroid Gland		Hyperplasia	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Hyperplasia	Stromal, Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 407	TRT#: 8	SEX: Male	DAY ON TEST: 712
	DOSE: F1 0PPM	DISP: Moribund	HISTO: 21320300407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Mammary Gland
Nose	Parathyroid Gland	Prostate	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Prostate, Dorsal Lobe	Thymus
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OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Dilatation	Minimal
		Nephropathy	Chronic, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hemorrhage	Moderate
[Degeneration TGLS = 2,3-13+13.1]			
[Hemorrhage TGLS = 2,3-13+13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-5.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-7]			
Thymus			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 407

TRT#: 8

SEX: Male

DAY ON TEST: 712

DOSE: F1 0PPM

DISP: Moribund

HISTO: 21320300407

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: TGL # 02 - Noted grossly as Tissue NOS was Lymph Node, Lumbar

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 408	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 710 HISTO: 21320300408
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
MISSING			
Prostate, Dorsal Lobe			
OBSERVATIONS			
Bone Marrow	Erythroid Cell Myeloid Cell	Hyperplasia Hyperplasia Degeneration Hypospermia	Moderate Mild Mild Marked
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-12]			
Liver		Basophilic Focus	
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node	Pancreatic	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 7-13]			
Lymph Node, Mandibular		Degeneration Hyperplasia Infiltration Cellular	Cystic, Mild Lymphoid, Marked Plasma Cell, Marked
Lymph Node, Mesenteric		Hemorrhage Hyperplasia	Mild Lymphoid, Mild
[Hemorrhage TGLS = 8-13.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 408	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 710 HISTO: 21320300408
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland [Fibroadenoma TGLS = 2-5.1]		Fibroadenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland [Inflammation TGLS = 3-6.1]		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Rete Testes		Fibrosis	Moderate
Seminal Vesicle [Atrophy TGLS = 9-6.1]		Atrophy	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes [Degeneration TGLS = 6-7]	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 409

TRT#: 12

SEX: Male

DAY ON TEST: 713

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Mammary Gland
Nose	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
Adrenal Medulla		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1-6.1]			
[Inflammation TGLS = 1-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.1]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 409	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 713 HISTO: 21320300409
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 410	TRT#: 12	SEX: Male	DAY ON TEST: 713
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric
Mammary Gland	Nose	Pancreas	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
		Metaplasia	Osseous, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Ventral Lobe		Degeneration	Mild
		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-5.1]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH	- UNCERTAIN
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 413	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 665 HISTO: 21320300413
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Mammary Gland	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 2-2]			
Liver		Angiectasis	Mild
	Bile Duct	Hepatocellular Carcinoma	
		Hyperplasia	Minimal
[Angiectasis TGLS = 5-5]			
[Hepatocellular Carcinoma TGLS = 4-5]			
Lung	Artery	Mineralization	Minimal
Lymph Node	Renal	Degeneration	Cystic, Marked
	Renal	Pigmentation	Mild
[Degeneration TGLS = 3-13]			
[Pigmentation TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Chronic Active, Minimal
Nose		Degeneration	Moderate
Pancreas	Acinar Cell	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 413	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 665 HISTO: 21320300413
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 6-5.1]			
Spleen		Pigmentation	Moderate
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	- Liver	Hepatocellular Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 419	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 712 HISTO: 21320300419
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Lymph Node, Mesenteric	Pancreas	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Skin
Stomach, Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Preputial Gland

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum	Stomach, Glandular
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OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Marked
Esophagus		Dilatation	Marked
Eye		Cataract	Moderate
		Inflammation	Suppurative, Marked
	Adventitia	Squamous Cell Carcinoma	
[Inflammation TGLS = 7-13]			
[Squamous Cell Carcinoma TGLS = 7-13]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 1-2]			
Liver	Biliar Tract	Fibrosis	Minimal
		Necrosis	Minimal
[Fibrosis TGLS = 4-5]			
[Necrosis TGLS = 4-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 5-10]			
[Mineralization TGLS = 5-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 419	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 712 HISTO: 21320300419
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
Mammary Gland		Degeneration	Mild
Nose		Squamous Cell Carcinoma	
Prostate, Dorsal Lobe		Degeneration	Minimal
		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 3-6.1]			
Skin			
Note: TGL # 06 - NO SECTION TAKEN			
Spleen		Depletion Lymphoid	Marked
		Pigmentation	Mild
[Depletion Lymphoid TGLS = 2-5]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Nose Squamous Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 430	TRT#: 13	SEX: Male	DAY ON TEST: 722
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lymph Node, Mesenteric	Pancreas
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Hypertrophy	Mild
Adrenal Medulla		Hyperplasia	Mild
Brain	Brain Stem	Compression	Mild
	Cerebrum	Hydrocephalus	Mild
[Compression TGLS = 2-8]			
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 4-2.1]			
Lung		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Mammary Gland		Degeneration	Moderate
Nose		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 430	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 722 HISTO: 21320300430
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 3-3]			
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 434	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 721 HISTO: 21320300434
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Urinary Bladder		

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Epididymis		Degeneration	Moderate
		Hypospermia	Marked
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Necrosis	Minimal
		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Mammary Gland	Duct	Dilatation	Marked
		Galactoceles	Marked
	Alveolus	Hyperplasia	Moderate
		Inflammation	Chronic, Marked
[Dilatation TGLS = 1,3,7-5.1+5.2+5.4]			
[Galactoceles TGLS = 7-5.4]			
[Hyperplasia TGLS = 7-5.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 434	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 721 HISTO: 21320300434
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 7-5.4]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Preputial Gland	Duct	Dilatation Inflammation	Moderate Suppurative, Marked
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Rete Testes		Dilatation	Moderate
Skin		Inflammation	Suppurative, Marked
Note: TGL # 01 & 07 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 6-5.3]			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Moderate Mild
Testes	Seminif Tub Interstit Cell	Degeneration Hyperplasia	Marked Mild
Thymus		Atrophy	Moderate
Trachea		Cyst	Squamous
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 435	TRT#: 22	SEX: Male	DAY ON TEST: 679
	DOSE: F3 500PPM TO CTL	DISP: Moribund	HISTO: 21320300435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Pancreas	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

MISSING

Epididymis	Parathyroid Gland	Rete Testes
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OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla	Bilateral	Hyperplasia	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 8-8]			
Coagulating Gland		Atrophy	Moderate
Eye	Bilateral, Retina	Atrophy	Minimal
Harderian Gland		Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Degeneration TGLS = 7-11.1]			
[Infiltration Cellular TGLS = 7-11.1]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 3-12]			
[Hyperplasia TGLS = 3-12]			
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 5			
Nose		Foreign Body	
		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 435	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 679 HISTO: 21320300435
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland Note: PATHOLOGIST NOTED: CUT AWAY			
Pituitary Gland [Adenoma TGLS = 9-3]	Pars Distalis	Adenoma	
Preputial Gland [Inflammation TGLS = 1-6.2]		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Seminal Vesicle [Atrophy TGLS = 4-6.1]		Atrophy	Moderate
Skin Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 5A(5.1) [Inflammation TGLS = 5,6-5.1+5.2]		Inflammation	Suppurative, Marked
Testes Note: PATHOLOGIST NOTED: WET TISSUE CHECKED, NO RETE TESTES LOCATED [Degeneration TGLS = 2-7]	Seminif Tub	Degeneration	Moderate
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:51
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 436

TRT#: 12

SEX: Male

DAY ON TEST: 724

DOSE: F1 5PPM/CTL

DISP: Natural Death

HISTO: 21320300436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Parathyroid Gland	Rete Testes
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum	Seminal Vesicle
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OBSERVATIONS

Brain	Brain Stem	Autolysis	Mild
	Cerebellum	Autolysis	Mild
	Cerebrum	Autolysis	Mild
	Brain Stem	Compression	Mild
	Cerebellum	Hydrocephalus	Minimal
	Cerebrum	Hydrocephalus	Minimal
[Compression TGLS = 5-8]			
Coagulating Gland		Autolysis	Mild
		Hyperplasia	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13]			
Liver		Angiectasis	Mild
		Autolysis	Mild
Lung		Autolysis	Mild
	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 436	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 724 HISTO: 21320300436
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Nose		Autolysis	Mild
	Upper Molar	Inflammation	Chronic Active, Mild
Pancreas		Autolysis	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-6]			
Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-5.1]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 437	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 681 HISTO: 21320300437
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Adrenal Cortex	Adrenal Medulla
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OBSERVATIONS

Brain	Brain Stem	Compression	Minimal
	Brain Stem	Hemorrhage	Moderate
[Compression TGLS = 3-8]			
[Hemorrhage TGLS = 3-8]			
Epididymis		Degeneration	Marked
		Hypospermia	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Moderate
		Developmental Malformation	
		Fatty Change	Marked
	Bile Duct	Hyperplasia	Mild
[Developmental Malformation TGLS = 6-5]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild
		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 437	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 681 HISTO: 21320300437
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Degeneration	Moderate
		Inflammation	Chronic, Mild
Seminal Vesicle		Atrophy	Moderate
		Degeneration	Mild
		Inflammation	Chronic Active, Mild
[Atrophy TGLS = 1-6.1]			
[Degeneration TGLS = 1-6.1]			
[Inflammation TGLS = 1-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4,5-5.1+5.2]			
Spleen		Depletion Lymphoid	Moderate
		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Urin Bladder			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 6			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 438	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 727 HISTO: 21320300438
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Colon
Intestine Small, Duodenum	Parathyroid Gland	Rete Testes	Salivary Glands
Stomach, Forestomach	Thyroid Gland	Trachea	Urinary Bladder
AUTO PRECLUDES DIAG.			
Coagulating Gland	Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Lymph Node, Mesenteric	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Seminal Vesicle	Stomach, Glandular	
OBSERVATIONS			
Brain	Brain Stem	Compression	Mild
	Brain Stem	Hemorrhage	Minimal
[Hemorrhage TGLS = 4-8]			
Coagulat GI			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Autolysis	Moderate
Nose		Autolysis	Moderate
	Squam Epithel	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Pancreas		Autolysis	Moderate
	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Inflammation	Suppurative, Moderate
Skin		Inflammation	Chronic Active, Moderate
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
[Inflammation TGLS = 5,6-5.1+5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 438	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 727 HISTO: 21320300438
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Autolysis	Moderate
		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 440	TRT#: 21	SEX: Male	DAY ON TEST: 680
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Liver	Lung
Lymph Node, Mandibular	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Prostate, Dorsal Lobe	Thymus
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OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
Epididymis		Hypospermia	Mild
Lymph Node	Inguinal	Degeneration	Cystic, Marked
	Inguinal	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 4-5.2]			
Prostate, Ventral Lobe		Inflammation	Suppurative, Marked
Seminal Vesicle		Dilatation	Moderate
		Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
Skin	Lymphatic	Ectasia	Moderate
		Inflammation	Chronic Active, Moderate
		Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 440	TRT#: 21	SEX: Male	DAY ON TEST: 680
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300440

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL # 04 - NOTED GROSSLY AS SKIN WAS PREPUTIAL GLAND			
[Ectasia TGLS = 3-5.1]			
[Inflammation TGLS = 3-5.1]			
[Necrosis TGLS = 3-5.1]			
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
PRIMARY CAUSE OF DEATH	- Preputial Gland Squamous Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 441	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 727 HISTO: 21320300441
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Harderian Gland
Heart	Intestine Large, Rectum	Islets, Pancreatic	Kidney
Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Rete Testes	Salivary Glands	Skin	Stomach, Forestomach
Trachea	Urethra	Urinary Bladder	

MISSING

Prostate, Ventral Lobe

AUTO PRECLUDES DIAG.

Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Stomach, Glandular		

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Vacuolization Cytoplasmic	Mild
Bone Marrow		Hypocellularity	Mild
Coagulating Gland		Inflammation	Suppurative, Marked
Esophagus		Hyperkeratosis	Moderate
Eye		Inflammation	Suppurative, Moderate
Lung	Artery	Mineralization	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Seminal Vesicle		Atrophy	Moderate
Skeletal Muscle		Cyst	
[Cyst TGLS = 1-13]			
Spleen		Depletion Lymphoid	Moderate
		Pigmentation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 441	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 727 HISTO: 21320300441
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Minimal
Thyroid Gland		Cyst	Squamous
Urethra			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH		- UNCERTAIN	
Animal Note: TGL # 02 - Noted grossly as Prostate was Urethra, Bulbourethral Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 443	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 683 HISTO: 21320300443
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	Bone, Femur
* Esophagus	* Heart	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	Rete Testes	* Salivary Glands	

AUTO PRECLUDES DIAG.

* Bone Marrow	* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum
Coagulating Gland	* Epididymis	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Preputial Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Lung		Autolysis Infiltration Cellular Metaplasia	Marked Histiocyte, Minimal Osseous, Minimal
[Infiltration Cellular TGLS = 4-10] [Metaplasia TGLS = 4-10]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Prostate, Dorsal Lobe		Autolysis Inflammation	Marked Suppurative, Marked
Prostate, Ventral Lobe		Autolysis Inflammation	Marked Suppurative, Marked
* Sem Ves			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
* Skin		Hyperkeratosis Hyperplasia	Mild Mild
[Hyperkeratosis TGLS = 1-5.1] [Hyperplasia TGLS = 1-5.1]	Epidermis		
* Spleen		Autolysis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 443	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 683 HISTO: 21320300443
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Pigmentation	Marked
Note: PATHOLOGIST NOTED: NORMAL SECTION OF TESTES WAS AUTOLYSIS PRECLUDES DIAGNOSIS	Autolysis	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 446

TRT#: 11

SEX: Male

DAY ON TEST: 730

DOSE: F1 500PPM

DISP: Moribund

HISTO: 21320300446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex	Adenoma	
	Degeneration	Cystic, Mild
Epididymis	Degeneration	Minimal
Esophagus	Hyperkeratosis	Mild
Intestine Large, Colon	Hyperplasia	Lymphoid, Moderate
Islets, Pancreatic	Adenoma	
	Hyperplasia	Minimal
Note: PATHOLOGIST NOTED: ADENOMA LOCATED ON SLIDE # 9		
Kidney	Nephropathy	Chronic, Mild
Lacrimal Gland	Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]		
Liver	Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
	Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 1-12]		
[Infiltration Cellular TGLS = 1-12]		
Lymph Node, Mesenteric	Degeneration	Cystic, Marked
[Degeneration TGLS = 4-9.1]		
Nose	Inflammation	Suppurative, Marked
	Squamous Cell Carcinoma	
[Inflammation TGLS = 5-11]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 446	TRT#: 11	SEX: Male	DAY ON TEST: 730
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300446

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Carcinoma TGLS = 5-11]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Seminal Vesicle		Atrophy	Mild
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
[Inflammation TGLS = 3-5.1]			
[Necrosis TGLS = 3-5.1]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Nose	Squamous Cell Carcinoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 447	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 729 HISTO: 21320300447
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebrum	Coagulating Gland	Epididymis	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric	Nose
Pancreas	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Minimal
	Cerebellum	Hemorrhage	Marked
[Compression TGLS = 4-8]			
Esophagus		Hyperkeratosis	Minimal
Eye	Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Infiltration Cellular	Lymphocyte, Minimal
Liver		Vacuolization Cytoplasmic	Mild
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-12]			
Mammary Gland		Lactation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Abscess	Marked
	Duct	Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 447	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Moribund	DAY ON TEST: 729 HISTO: 21320300447
ORGAN AND ACCOUNTABLE SITE STATUS			
[Abscess TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Hyperplasia	Mild
Skin		Abscess	Marked
		Inflammation	Suppurative, Marked
		Necrosis	Marked
[Abscess TGLS = 5-5.1]			
[Inflammation TGLS = 5-5.1]			
[Necrosis TGLS = 5-5.1]			
Spleen		Hyperplasia	Lymphoid, Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 448

TRT#: 12

SEX: Male

DAY ON TEST: 731

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Epididymis	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric	Pancreas
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Skin	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
Brain	Brain Stem	Compression	Moderate
	Cerebellum	Hydrocephalus	Mild
	Cerebrum	Hydrocephalus	Mild
[Compression TGLS = 3-8]			
Coagulating Gland		Atrophy	Mild
Esophagus		Hyperkeratosis	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Marked
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland	Duct	Dilatation	Moderate
Nose	Upper Molar	Inflammation	Chronic Active, Mild
		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 448	TRT#: 12	SEX: Male	DAY ON TEST: 731
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300448
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Seminal Vesicle		Atrophy	Mild
Spleen		Pigmentation	Marked
Stomach, Forestomach	Submucosa	Edema	Moderate
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 449

TRT#: 11

SEX: Male

DAY ON TEST: 731

DOSE: F1 500PPM

DISP: Natural Death

HISTO: 21320300449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal Medulla

Blood Vessel

Bone, Femur

Epididymis

Harderian Gland

Heart

Islets, Pancreatic

Parathyroid Gland

Rete Testes

Salivary Glands

Testes

Thyroid Gland

Trachea

MISSING

Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

Brain - Brain Stem

Brain - Cerebellum

Coagulating Gland

Eye

Intestine Large, Cecum

Intestine Large, Colon

Intestine Large, Rectum

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum

Lung

Nose

Seminal Vesicle

Stomach, Forestomach

Stomach, Glandular

Urinary Bladder

INSUFFICIENT TISSUE

Prostate, Ventral Lobe

OBSERVATIONS

Bone Marrow

Myeloid Cell

Hyperplasia

Mild

Brain

Cerebrum

Hydrocephalus

Minimal

Esophagus

Hyperkeratosis

Minimal

Kidney

Autolysis

Moderate

Nephropathy

Chronic, Minimal

Liver

Autolysis

Mild

Bile Duct

Hyperplasia

Minimal

Lymph Node, Mandibular

Infiltration Cellular

Plasma Cell, Mild

[Infiltration Cellular TGLS = 1-12]

Mammary Gland

Lactation

Mild

Pancreas

Degeneration

Marked

Pituitary Gland

Acinar Cell

Adenoma

[Adenoma TGLS = 2-3]

Preputial Gland

Inflammation

Suppurative, Mild

Prostate, Dorsal Lobe

Inflammation

Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 449	TRT#: 11	SEX: Male	DAY ON TEST: 731
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300449
ORGAN AND ACCOUNTABLE SITE STATUS			
Sem Ves			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-5.1]			
Spleen		Autolysis	Mild
		Pigmentation	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 457

TRT#: 11

SEX: Male

DAY ON TEST: 734

DOSE: F1 500PPM

DISP: Natural Death

HISTO: 21320300457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Nose
Parathyroid Gland	Rete Testes	Testes	

MISSING

Prostate, Ventral Lobe

AUTO PRECLUDES DIAG.

Adrenal Cortex	Adrenal Medulla	Bone Marrow	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Islets, Pancreatic		Adenoma	
Pancreas		Autolysis	Mild
	Acinar Cell	Degeneration	Mild
Preputial Gland		Autolysis	Moderate
		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Autolysis	Moderate
		Inflammation	Suppurative, Moderate
Skin		Angiectasis	Moderate
		Inflammation	Suppurative, Moderate

[Angiectasis TGLS = 1-5.1]

[Inflammation TGLS = 1-5.1]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 458	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 730 HISTO: 21320300458
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Bone Marrow	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Epididymis	Esophagus	Harderian Gland
Mammary Gland	Nose	Parathyroid Gland	Salivary Glands
Trachea			
MISSING			
Rete Testes			
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Coagulating Gland
Ductus Deferens	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node, Mesenteric	Pituitary Gland	Prostate, Ventral Lobe	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Urinary Bladder
INSUFFICIENT TISSUE			
Thymus			
OBSERVATIONS			
Coagulat GI			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Ductus Deferen			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Autolysis	Mild
		Degeneration	Cystic, Minimal
Lymph Node, Mandibular		Autolysis	Moderate
		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Pancreas		Autolysis	Mild
	Acinar Cell	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 458	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 730 HISTO: 21320300458
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Autolysis	Moderate
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Adenocarcinoma	
		Inflammation	Suppurative, Moderate
Seminal Vesicle		Adenocarcinoma	Metastatic (Prostate)
		Autolysis	Marked
[Adenocarcinoma TGLS = 4-6.1]			
Skin		Autolysis	Moderate
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
[Hyperkeratosis TGLS = 3-5.1]			
[Hyperplasia TGLS = 3-5.1]			
Spleen		Autolysis	Moderate
		Pigmentation	Mild
PRIMARY CAUSE OF DEATH - Prostate, Dorsal Lobe Adenocarcinoma			
Animal Note: TGL # 06 - Noted grossly as Tissue NOS was Ductus Deferens			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 459

TRT#: 12

SEX: Male

DAY ON TEST: 734

DOSE: F1 5PPM/CTL

DISP: Natural Death

HISTO: 21320300459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Heart	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Rete Testes	Salivary Glands
Stomach, Forestomach	Testes		

AUTO PRECLUDES DIAG.

Coagulating Gland	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node, Mesenteric	Nose	Prostate, Dorsal Lobe
Seminal Vesicle	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Adenoma	
Harderian Gland	Epithelium	Hyperplasia	Minimal
Kidney		Autolysis	Marked
	Cortex	Cyst	
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Autolysis	Moderate
		Degeneration	Cystic, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Preputial Gland		Abscess	Marked
[Abscess TGLS = 7-6.2]			
Prostate, Ventral Lobe		Autolysis	Moderate
		Hyperplasia	Mild
Skin		Cyst Epithelial Inclusion	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 459	TRT#: 12	SEX: Male	DAY ON TEST: 734
	DOSE: F1 5PPM/CTL	DISP: Natural Death	HISTO: 21320300459
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst Epithelial Inclusion TGLS = 6-5.4] [Inflammation TGLS = 4-5.2] [Inflammation TGLS = 5-5.3] [Sarcoma TGLS = 2-5.1]		Inflammation	Suppurative, Marked
		Inflammation	Chronic Active, Mild
		Sarcoma	
Spleen		Autolysis	Mild
		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Skin	Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 460	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300460
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 4-6.1]			
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Degeneration	Cystic, Mild
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Moderate
Spleen		Pigmentation	Mild
Testes	Interstit Cell	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-13.1]			
Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 460	TRT#: 8	SEX: Male	DAY ON TEST: 737
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300460

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 461	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300461
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.3]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 462

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Islets, Pancreatic
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Focal, Minimal
Coagulating Gland		Concretion	
[Concretion TGLS = 7-6.1]			
Intestine Small, Ileum		Adenocarcinoma	
[Adenocarcinoma TGLS = 5,6-9.2+9.3]			
Intestine Small, Jejunum		Adenocarcinoma	
[Adenocarcinoma TGLS = 5,6-9.2+9.3]			
Kidney	Cortex	Cyst	
[Cyst TGLS = 2-2]		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
[Hepatocellular Adenoma TGLS = 1-5.2]		Hepatocellular Adenoma	
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 462		TRT#: 9	SEX: Male	DAY ON TEST: 737
		DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300462
ORGAN AND ACCOUNTABLE SITE STATUS				
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild	
Pancreas	Acinar Cell	Hyperplasia	Lymphoid, Mild	
Pituitary Gland	Pars Distalis	Degeneration	Mild	
	Pars Distalis	Cyst		
Prostate, Dorsal Lobe		Hyperplasia	Minimal	
Prostate, Ventral Lobe		Inflammation	Suppurative, Moderate	
Skin		Degeneration	Mild	
[Inflammation TGLS = 4-5.3]		Inflammation	Suppurative, Marked	
Spleen		Hematopoietic Cell Proliferation	Minimal	
Thymus		Atrophy	Marked	
Thyroid Gland		Cyst	Squamous	
PRIMARY CAUSE OF DEATH		-		
Animal Note: TGL # 05 & # 06 - Noted grossly as Intestine Large were Intestine Small				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 463	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300463
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Pancreas	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
AUTO PRECLUDES DIAG.			
Pituitary Gland			
OBSERVATIONS			
Adrenal Cortex	Bilateral	Hyperplasia Vacuolization Cytoplasmic	Minimal Mild
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Adrenal Medulla		Hyperplasia	Minimal
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst Nephropathy	Chronic, Marked
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 5-13]			
Liver		Basophilic Focus Clear Cell Focus Degeneration Eosinophilic Focus Hemorrhage Hyperplasia Vacuolization Cytoplasmic	Multiple Multiple Cystic, Mild Moderate Minimal Mild
	Bile Duct		
[Basophilic Focus TGLS = 1,2,7-5+5.2+5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 463	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300463
ORGAN AND ACCOUNTABLE SITE STATUS			
[Clear Cell Focus TGLS = 2,7-5.2+5.3]			
[Degeneration TGLS = 1,2-5+5.2]			
[Eosinophilic Focus TGLS = 1-5]			
[Hemorrhage TGLS = 7-5.3]			
[Hyperplasia TGLS = 1,2-5+5.2]			
[Vacuolization Cytoplasmic TGLS = 1-5]			
Lung	Artery	Mineralization	Minimal
Mammary Gland		Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
Skin		Fibroma	
[Fibroma TGLS = 6-5.4]			
Spleen		Pigmentation	Mild
Stom Gland			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 464

TRT#: 10

SEX: Male

DAY ON TEST: 735

DOSE: F1 100PPM

DISP: Terminal Sacrifice

HISTO: 21320300464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Epididymis	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 8-6.1]			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
[Cyst TGLS = 2-2]			
Liver		Inflammation	Chronic Active, Minimal
Lung	Artery	Mineralization	Mild
Lymph Node	Inguinal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 7-5.4]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Note: TGL # 07 - NOTED GROSSLY AS MAMMARY GLAND WAS LYMPH NODE, INGUINAL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 464	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 21320300464
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Degeneration	Mild
		Inflammation	Suppurative, Marked
Skin [Inflammation TGLS = 4,5-5.2+5.3]		Inflammation	Suppurative, Marked
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 465	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 21320300465
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
INSUFFICIENT TISSUE			
Rete Testes			
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 11-8]			
Coagulating Gland		Atrophy	Moderate
Epididymis		Degeneration	Moderate
		Hypospermia	Marked
[Degeneration TGLS = 5-6.2]			
[Hypospermia TGLS = 5-6.2]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Moderate
		Vacuolization Cytoplasmic	Moderate
[Degeneration TGLS = 8-5]			
[Hyperplasia TGLS = 8-5]			
[Necrosis TGLS = 8-5]			
[Vacuolization Cytoplasmic TGLS = 8-5]			
Lung		Chondrosarcoma	Metastatic (Uncertain Primary Site)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 465	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 21320300465
ORGAN AND ACCOUNTABLE SITE STATUS			
[Chondrosarcoma TGLS = 12,13,14-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
[Degeneration TGLS = 9-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland	Duct	Dilatation	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
[Inflammation TGLS = 6-6]			
Prostate, Ventral Lobe		Degeneration	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 6-6]			
[Inflammation TGLS = 6-6]			
Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 7-6.1]			
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS TISSUE NOS			
Note: PATHOLOGIST NOTED: TERM CHONDROSARCOMA FOR SKIN,SUBCUTANEOUS WAS NOT AVAILABLE; CODED UNDER TISSUE NOS			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3,4-13]			
Thymus		Atrophy	Marked
Tissue NOS		Chondrosarcoma	
[Chondrosarcoma TGLS = 1-5.2+5.3+5.4]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 466	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300466
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Mild
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1-6.2]			
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 466	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300466
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 4-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 467

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 3-6.1]			
Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 6-9.2]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
[Cyst TGLS = 5-2]		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	Multiple
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 467	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300467
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland [Keratin Cyst TGLS = 2-6.2]		Keratin Cyst	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stom Gland Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 468	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mesenteric	Nose	Pancreas
Parathyroid Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Mild
Coagulating Gland		Atrophy	Mild
[Atrophy TGLS = 4-6.1]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Mild
		Pigmentation	Minimal
[Metaplasia TGLS = 3-10]			
[Mineralization TGLS = 3-10]			
[Pigmentation TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-12]			
Mammary Gland	Alveolus	Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 468	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300468
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 469

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate, Dorsal Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Small, Jejunum

OBSERVATIONS

Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 4-6.1]			
Harderian Gland		Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Renal Tubule	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Marked
[Cyst TGLS = 3-2]			
[Inflammation TGLS = 2-2.1]			
[Nephropathy TGLS = 2-2.1]			
Liver	Adventitia	Hemorrhage	Moderate
[Hemorrhage TGLS = 1-5]			
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 469	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300469
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Prostate, Ventral Lobe	Interstitium	Fibrosis	Minimal
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
		Seminoma Benign	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 470	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300470
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Nose	Pancreas	Parathyroid Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
Adrenal Medulla		Hyperplasia	Minimal
Epididymis		Hypospermia	Marked
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 6-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Basophilic Focus	
		Developmental Malformation	
[Developmental Malformation TGLS = 2-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Mast Cell, Mild
Mammary Gland		Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Skin		Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 470	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300470
ORGAN AND ACCOUNTABLE SITE STATUS			
	Epidermis	Hyperplasia Inflammation	Mild Chronic Active, Moderate
[Hyperkeratosis TGLS = 4-5.3] [Hyperplasia TGLS = 4-5.3] [Inflammation TGLS = 3-5.2]			
Testes [Degeneration TGLS = 5-13.1]	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 471

TRT#: 8

SEX: Male

DAY ON TEST: 737

DOSE: F1 0PPM

DISP: Terminal Sacrifice

HISTO: 21320300471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Pancreas
Salivary Glands	Seminal Vesicle	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
Adrenal Medulla		Hyperplasia	Mild
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 6-6.1]			
Eye	Retina	Atrophy	Mild
Kidney	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Minimal
Liver		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Mammary Gland	Duct	Dilatation	Marked
[Dilatation TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 471	TRT#: 8	SEX: Male	DAY ON TEST: 737
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300471
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Suppurative, Marked
		Inflammation	Pyogranulomat, Marked
[Inflammation TGLS = 3-13.1]			
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Mild
Stomach, Forestomach		Cyst	Squamous
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 02 - Noted grossly as Lymph Node, Deep Cervical was Mammary Gland			
Animal Note: TGL # 03 - Noted grossly as Lymph Node, Lumbar was Skin			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 472	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300472
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Preputial Gland	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex	Capsule	Fibrosis Vacuolization Cytoplasmic	Minimal Minimal
[Fibrosis TGLS = 2-3]			
Kidney	Cortex	Cyst Nephropathy	Chronic, Minimal
[Cyst TGLS = 8-2]			
Liver		Angiectasis Basophilic Focus	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
[Angiectasis TGLS = 6,7-5]			
[Basophilic Focus TGLS = 6,7-5]			
[Fibrosis TGLS = 6,7-5]			
[Hyperplasia TGLS = 6,7-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
	Artery	Mineralization	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
[Degeneration TGLS = 4-13]			
Lymph Node, Mandibular		Degeneration Hyperplasia	Cystic, Moderate Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 472	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300472
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 1-12] [Hyperplasia TGLS = 1-12] [Infiltration Cellular TGLS = 1-12]		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 3-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 9-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 473	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300473
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Adenoma	
Coagulating Gland		Atrophy	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
[Fibrosis TGLS = 1,2-5]			
[Hyperplasia TGLS = 1,2-5]			
[Vacuolization Cytoplasmic TGLS = 1,2-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7,8-10+10.1]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 473	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300473
ORGAN AND ACCOUNTABLE SITE STATUS			
Nose		Inflammation	Suppurative, Mild
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked
		Necrosis	Moderate
[Inflammation TGLS = 4,5-5.2+5.3] [Necrosis TGLS = 5-5.3]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 474

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla	Bilateral	Hyperplasia	Minimal
Coagulating Gland		Atrophy	Mild
Epididymis		Hypospermia	Marked
Kidney		Fibrosis	Minimal
		Nephropathy	Chronic, Mild
[Fibrosis TGLS = 1-2]			
[Nephropathy TGLS = 1-2]			
Liver		Eosinophilic Focus	Multiple
		Vacuolization Cytoplasmic	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 474	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300474
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-13]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 475

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 5-6.1]			
Epididymis		Hypospermia	Marked
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 7-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13.1]			
Liver		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 03 - NO SECTION TAKEN			
[Hepatodiaphragmatic Nodule TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 8-13]			
[Hyperplasia TGLS = 8-13]			
[Infiltration Cellular TGLS = 8-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 475	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300475
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-6]			
Prostate, Ventral Lobe		Degeneration	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 10-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
		Polyarteritis	Mild
[Degeneration TGLS = 4-13.2]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 476	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Mammary Gland	Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart	Endocardium	Inflammation	Chronic Active, Mild
		Thrombosis	
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
[Angiectasis TGLS = 1-5.2]			
[Fibrosis TGLS = 1-5.2]			
[Hyperplasia TGLS = 1-5.2]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Marked
		Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 476	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300476
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 3-5.3]		Sarcoma	
[Necrosis TGLS = 3-5.3]			
[Sarcoma TGLS = 2-13]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH		-	
Animal Note: TGL # 02 - Noted grossly as Lymph Node, Lumbar was Skin			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 477	TRT#: 12	SEX: Male	DAY ON TEST: 737
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric
Nose	Pancreas	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 1-12]			
Mammary Gland		Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 477	TRT#: 12	SEX: Male	DAY ON TEST: 737
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300477
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Pigmentation	Mild
Thymus		Degeneration	Minimal
		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 478	TRT#: 14	SEX: Male	DAY ON TEST: 737
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Coagulating Gland	Epididymis	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Jejunum
Lung	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Medulla

OBSERVATIONS

Adrenal Cortex		Atrophy	Marked
[Atrophy TGLS = 2-3]			
Brain	Cerebrum, Meninges	Fibrosis	Mild
Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-9.2]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Fibrosis	Minimal
		Nephropathy	Chronic, Mild
[Fibrosis TGLS = 4-2]			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Moderate
Skeletal Muscle		Fibrosis	Marked
[Fibrosis TGLS = 1-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 478	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300478
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 479

TRT#: 14

SEX: Male

DAY ON TEST: 737

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
Adrenal Medulla		Pheochromocytoma Benign	
Epididymis		Polyarteritis	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Capsule	Fatty Change	
		Nephropathy	Chronic, Mild
[Fatty Change TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Inflammation	Granulomatous, Mild
Pituitary GI			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 479	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300479
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 1-5.2] [Hyperplasia TGLS = 1-5.2]	Epidermis	Hyperplasia	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 480

TRT#: 14

SEX: Male

DAY ON TEST: 737

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Stomach, Glandular

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Large, Colon		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-9.2]			
Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 5-9.3]			
Kidney	Cortex	Cyst	
[Cyst TGLS = 1-2]		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Mild
[Angiectasis TGLS = 2,3-5]	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 480	TRT#: 14	SEX: Male	DAY ON TEST: 737
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300480
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 502	TRT#: 11	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mesenteric	Nose	Pancreas	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 2-2]			
[Fatty Change TGLS = 2-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland	Duct	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 502	TRT#: 11	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300502

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen	Pigmentation	Mild
Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 503

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Coagulating Gland	Epididymis	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow		Lymphoma Malignant	
Brain	Cerebrum	Developmental Malformation	
Eye		Lymphoma Malignant	
Harderian Gland		Lymphoma Malignant	
Heart		Cardiomyopathy	Minimal
Kidney		Accumulation, Hyaline Droplet	Marked
		Lymphoma Malignant	
		Nephropathy	Chronic, Marked
[Accumulation, Hyaline Droplet TGLS = 5-2]			
[Lymphoma Malignant TGLS = 5-2]			
[Nephropathy TGLS = 5-2]			
Liver		Lymphoma Malignant	
Lung		Lymphoma Malignant	
Lymph Node, Mandibular		Lymphoma Malignant	
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Lymphoma Malignant	
[Degeneration TGLS = 4-13.1]			
[Lymphoma Malignant TGLS = 4-13.1]			
Mammary Gland	Alveolus	Hyperplasia	Mild
Nose		Lymphoma Malignant	
Pancreas	Acinar Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 503

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300503

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 9R

Pituitary Gland

Pars Distalis

Preputial Gland

[Inflammation TGLS = 3-6.2]

Prostate, Dorsal Lobe

Prostate, Ventral Lobe

Skin

[Inflammation TGLS = 1,2-5.2+13]

Spleen

[Lymphoma Malignant TGLS = 6-5]

Thymus

Lymphoma Malignant

Adenoma

Inflammation

Lymphoma Malignant

Suppurative, Marked

Inflammation

Suppurative, Mild

Degeneration

Mild

Inflammation

Suppurative, Moderate

Inflammation

Chronic, Mild

Lymphoma Malignant

Lymphoma Malignant

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL # 02 - Noted grossly as Bone was Skin

Animal Note: TGL # 04 - Noted grossly as Mesentery was Lymph Node, Mesenteric

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 504	TRT#: 9	SEX: Male	DAY ON TEST: 738
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Marked
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 3-6.1]			
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Note: TGL # 07 - NO SECTION TAKEN			
[Hepatocellular Adenoma TGLS = 10-5.3]			
Lung		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Mild
[Infiltration Cellular TGLS = 9-10]			
[Metaplasia TGLS = 9-10]			
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 504	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300504
ORGAN AND ACCOUNTABLE SITE STATUS			
	Popliteal	Hyperplasia	Lymphoid, Moderate
	Popliteal	Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 5-13.2]			
[Hyperplasia TGLS = 2-13.1]			
[Infiltration Cellular TGLS = 5-13.2]			
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Fibrosis	Marked
		Hemorrhage	Mild
		Inflammation	Chronic Active, Marked
[Fibrosis TGLS = 8-5.2]			
[Hemorrhage TGLS = 8-5.2]			
[Inflammation TGLS = 8-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Zymbal's Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-13]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 505	TRT#: 9	SEX: Male	DAY ON TEST: 738
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 506	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300506
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Jejunum	Lymph Node, Mandibular	Mammary Gland	Nose
Pancreas	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Int Sm Jejunum			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 6-9.1]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver		Developmental Malformation	
[Developmental Malformation TGLS = 2-5.2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 4-13]			
[Hyperplasia TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Parathyroid Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 506	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300506
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Degeneration	Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.3]			
Spleen	Seminif Tub	Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Testes		Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 507	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300507
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Rete Testes	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Bone Marrow		Hypocellularity	Moderate
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 4-8]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Pelvis	Hyperplasia	Mild
	Pelvis	Mineralization	Mild
		Nephropathy	Chronic, Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 2-12]			
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Marked
	Duct	Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 507	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300507
ORGAN AND ACCOUNTABLE SITE STATUS			
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1-6.2]			
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Degeneration	Mild
		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
Salivary Glands		Mineralization	Mild
Skin		Hyperkeratosis	Moderate
Epidermis		Hyperplasia	Moderate
[Hyperkeratosis TGLS = 5,6-5+5.2]			
[Hyperplasia TGLS = 5,6-5+5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 508

TRT#: 10

SEX: Male

DAY ON TEST: 738

DOSE: F1 100PPM

DISP: Terminal Sacrifice

HISTO: 21320300508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Eosinophilic Focus	
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Nose		Inflammation	Chronic Active, Mild
Pancreas		Basophilic Focus	
	Acinar Cell	Degeneration	Mild
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 509	TRT#: 10	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Islets, Pancreatic	Liver
Lymph Node, Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-9]			
Intestine Large, Colon		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-9.3]			
Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-9.2]			
Kidney		Nephropathy	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 509	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300509
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 510	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300510
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 510	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300510
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 511	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300511
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-12]			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 512	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300512
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mandibular	Mammary Gland	Nose	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			
INSUFFICIENT TISSUE			
Rete Testes			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Marked
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Lung		Metaplasia	Osseous, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Degeneration	Mild
		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1,2-5.2+5.3]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 513	TRT#: 12	SEX: Male	DAY ON TEST: 738
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
Eye	Retina	Atrophy	Mild
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Note: TGL # 03 - NO MICROSCOPIC CORRELATE [Cyst TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocytic, Minimal
		Metaplasia	Osseous, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 513	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300513
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Moderate
Thymus		Atrophy	Marked
[Atrophy TGLS = 4-1]			
Thyroid Gland	Follicular Cel	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 514	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Lymph Node, Mandibular	Nose	Parathyroid Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 6-9]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 3-6.2]			
[Inflammation TGLS = 3-6.2]			
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 514	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300514
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes [Degeneration TGLS = 4-13.1]	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 515	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300515
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular
Nose	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
OBSERVATIONS			
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 4-2]		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13.1]			
Liver		Vacuolization Cytoplasmic	Minimal
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
[Degeneration TGLS = 3-13]	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland	Bilateral	Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Marked
[Degeneration TGLS = 2-6.2]		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 515	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300515
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Marked
Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 5-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 7-3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 516	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300516
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Pancreas	Pituitary Gland	Preputial Gland
Rete Testes	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Epididymis		Degeneration	Minimal
Kidney		Nephropathy	Chronic, Marked
Liver		Vacuolization Cytoplasmic	Mild
Note: TGL # 03 - NO SECTION TAKEN			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lung	Alveolar Epith	Hyperplasia	Minimal
	Artery	Mineralization	Mild
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 1-12]			
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Moderate
Seminal Vesicle		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 516	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300516
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 517	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300517
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
INSUFFICIENT TISSUE			
Rete Testes			
OBSERVATIONS			
Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
		Mineralization	Minimal
Kidney	Artery	Nephropathy	Chronic, Mild
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Mineralization	Mild
Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Infiltration Cellular	Plasma Cell, Moderate
		Degeneration	Cystic, Marked
Lymph Node, Mesenteric [Degeneration TGLS = 5-13]	Acinar Cell	Degeneration	Mild
Mammary Gland		Degeneration	Mild
Pancreas		Inflammation	Chronic Active, Minimal
		Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Distalis		
[Cyst TGLS = 4-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Degeneration	Mild
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 517	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300517
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Hyperplasia	Mild
Skin		Cyst Epithelial Inclusion Inflammation	Suppurative, Marked
[Cyst Epithelial Inclusion TGLS = 1-5.1]			
[Inflammation TGLS = 2-5.2]			
Spleen		Accessory Spleen	
[Accessory Spleen TGLS = 6-5]			
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-7]			
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 05 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 518	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300518
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
AUTO PRECLUDES DIAG.			
Intestine Small, Ileum			
OBSERVATIONS			
Brain	Cerebrum	Hydrocephalus	Mild
[Hydrocephalus TGLS = 6-8]			
Epididymis		Hypospermia	Marked
[Hypospermia TGLS = 2-6.3]			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Infiltration Cellular	Lymphocyte, Mild
Intestine Small, Jejunum		Cardiomyopathy	Minimal
[Hyperplasia TGLS = 4,5-9.2+9.3]			
Islets, Pancreatic		Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Minimal
Liver		Eosinophilic Focus	Chronic, Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Edema	Moderate
		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 8-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 518	TRT#: 8	SEX: Male	DAY ON TEST: 738
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300518
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 7-13]		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pituitary Gland	Pars Intermed	Cyst	Multiple
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 3-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-13.1]			
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 05 - Noted grossly as Int Lg was Int Sm Jejunum			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 519	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Epididymis		Degeneration	Mild
		Hypospermia	Marked
		Infiltration Cellular	Lymphocyte, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 2-12]			
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Nose		Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 519	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300519
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Moderate
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-13]			
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 520	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Cyst	
Coagulating Gland		Atrophy	Mild
Epididymis		Hypospermia	Marked
		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver		Basophilic Focus	
		Eosinophilic Focus	
Note: TGL # 03 - NO SECTION TAKEN			
Lung		Hemorrhage	Marked
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 520	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300520
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 521	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300521
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mandibular
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large, Colon		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-9]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 1,3-2]		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Nose		Cyst	
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 521	TRT#: 14	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300521
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 522	TRT#: 14	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Coagulating Gland		Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Infiltration Cellular	Histiocyte, Mild
Lung			
[Infiltration Cellular TGLS = 8-10]			
Lymph Node		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
		Pigmentation	Mild
[Hemorrhage TGLS = 6-13.2]			
[Pigmentation TGLS = 6-13.2]			
Mammary Gland	Alveolus	Hyperplasia	Minimal
Mesentery	Fat	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 522	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300522
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL # 06 - NOTED GROSSLY AS MESENTERY WAS LYMPH NODE, MESENTERIC

[Inflammation TGLS = 5-13.1]

Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Carcinoma	Metastatic (Urinary Bladder)
Prostate, Ventral Lobe		Carcinoma	Metastatic (Urinary Bladder)
		Degeneration	Mild
Skin		Inflammation	Chronic Active, Marked
		Necrosis	Moderate

[Inflammation TGLS = 1,2-5.2+5.3]

[Necrosis TGLS = 1,2-5.2+5.3]

Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Urinary Bladder	Transit Epithe	Carcinoma	

[Carcinoma TGLS = 7-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 523	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300523
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Mammary Gland
Nose	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain	Cerebrum	Hydrocephalus	Minimal
[Hydrocephalus TGLS = 7-8]			
Coagulat GI			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Int Sm Duoden			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 523	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300523
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell Duct	Degeneration Dilatation Inflammation	Mild Marked Suppurative, Marked
[Degeneration TGLS = 1-6.2]			
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
Thyroid Gland			
Note: TGL # 04 - NOTED GROSSLY AS THYROID GLAND WAS PARATHYROID GLAND			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 524

TRT#: 14

SEX: Male

DAY ON TEST: 738

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lymph Node, Mandibular	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
Heart		Cardiomyopathy	Minimal
Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 5-9]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 524	TRT#: 14	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300524

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 525	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 21320300525
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Nose	Pancreas	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland	Duct	Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 2-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 526	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300526
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Cortex	Adrenal Medulla
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OBSERVATIONS

Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 3-6.1]			
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 5-5]			
Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1,2-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 526	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300526
ORGAN AND ACCOUNTABLE SITE STATUS			
[Dilatation TGLS = 1,2-6.2] [Inflammation TGLS = 1,2-6.2] Prostate, Dorsal Lobe Thymus			
PRIMARY CAUSE OF DEATH		-	Infiltration Cellular Atrophy Lymphocyte, Minimal Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 541	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300541
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular
Nose	Parathyroid Gland	Pituitary Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
[Angiectasis TGLS = 1-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 541	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300541
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 560	TRT#: 20	SEX: Male	DAY ON TEST: 694
	DOSE: F3 5PPM TO CTL	DISP: Natural Death	HISTO: 21320300560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	* Heart	* Parathyroid Gland
Rete Testes	* Stomach, Forestomach	* Thyroid Gland	

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Brain - Brain Stem	* Brain - Cerebellum
* Brain - Cerebrum	Coagulating Gland	Epididymis	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	Preputial Gland
* Salivary Glands	Seminal Vesicle	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Autolysis	Mild
	Myeloid Cell	Hyperplasia	Moderate
* Esophagus		Dilatation	Mild
* Eye		Autolysis	Marked
	Retrobulbar	Carcinoma	
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 11B(11.2)			
[Carcinoma TGLS = 4-11.1]			
* Harderian Gland		Autolysis	Moderate
	Epithelium	Hyperplasia	Mild
* Kidney		Autolysis	Marked
		Nephropathy	Chronic, Mild
* Liver		Autolysis	Mild
		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-5]			
* Lung		Carcinoma	Metastatic (Uncertain Primary Site)
* Lymph Node, Mandibular		Autolysis	Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 560	TRT#: 20	SEX: Male	DAY ON TEST: 694
	DOSE: F3 5PPM TO CTL	DISP: Natural Death	HISTO: 21320300560
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gl			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Prostate, Dorsal Lobe		Autolysis	Marked
		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Autolysis	Marked
Sem Ves			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
* Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-5.1]			
* Spleen		Autolysis	Mild
		Pigmentation	Marked
Testes		Autolysis	Moderate
	Seminif Tub	Degeneration	Minimal
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Eye Retrobulbar Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 561	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300561
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Epididymis		Degeneration	Marked
		Granuloma Sperm	Marked
		Hypospermia	Marked
Heart		Cardiomyopathy	Mild
Intestine Large, Colon		Adenoma	
[Adenoma TGLS = 9-9]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Mild
[Cyst TGLS = 6-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13.1]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 5-13]			
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 561	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300561
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 2-12]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Marked
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 4-6.2]			
[Dilatation TGLS = 4-6.2]			
[Inflammation TGLS = 4-6.2]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Moderate
Stomach, Glandular	Epithelium	Hyperplasia	Marked
[Hyperplasia TGLS = 8-9]			
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 562	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300562
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Nose	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
MISSING			
Parathyroid Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
		Metaplasia	Osseous, Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Mild
[Cyst TGLS = 9-2]			
Liver		Granuloma	Multiple, Marked
[Granuloma TGLS = 5,6,7-5.3]			
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 8-10]			
[Infiltration Cellular TGLS = 8-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-5.2]			
Pancreas	Acinar Cell	Degeneration	Moderate
Parathyroid GI			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 562	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300562
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration Inflammation	Mild Suppurative, Mild
Prostate, Dorsal Lobe		Cyst Degeneration Inflammation	Mild Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration Hyperplasia	Mild Minimal
Sem Ves Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Skin [Hyperkeratosis TGLS = 1-5] [Hyperplasia TGLS = 1-5]	Epidermis	Hyperkeratosis Hyperplasia	Mild Moderate
Spleen Thymus		Pigmentation Atrophy	Mild Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 563	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300563
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
MISSING			
Parathyroid Gland			
OBSERVATIONS			
Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Eye		Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-12]			
[Hyperplasia TGLS = 4-12]			
[Infiltration Cellular TGLS = 4-12]			
Mammary Gland		Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 563	TRT#: 8	SEX: Male	DAY ON TEST: 739
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300563
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Degeneration	Minimal
		Inflammation	Suppurative, Mild
Saliv Glands			
Note: TGL # 04 - NOTED GROSSLY AS SALIVARY GLAND WAS LYMPH NODE, MANDIBULAR			
Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Moderate
		Inflammation	Suppurative, Marked
[Hyperkeratosis TGLS = 1-5.2]			
[Hyperplasia TGLS = 1-5.2]			
[Inflammation TGLS = 2-5.3]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 564

TRT#: 9

SEX: Male

DAY ON TEST: 738

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Lymph Node	Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Adenoma	
[Adenoma TGLS = 1-3]			
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 3-2]		Nephropathy	Chronic, Mild
Lymph Node			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE (LYMPH NODE, HEMAL)			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Note: TGL # 02 - NOTED GROSSLY AS THYMUS WAS LYMPH NODE, HEMAL			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 565	TRT#: 9	SEX: Male	DAY ON TEST: 738
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Pancreas	Pituitary Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung	Alveolar Epith	Adenoma	
[Adenoma TGLS = 7-10]			
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE (LYMPH NODE, LUMBAR)			
[Hyperplasia TGLS = 8-13.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 6-9.2]			
Parathyroid Gland			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 565	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300565
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe	Epidermis	Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Skin		Hyperkeratosis	Mild
		Hyperplasia	Moderate
		Inflammation	Suppurative, Marked
[Hyperkeratosis TGLS = 5-5.3]			
[Hyperplasia TGLS = 5-5.3]			
[Inflammation TGLS = 4-5.2]			
Spleen	Seminif Tub	Pigmentation	Moderate
Testes		Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 566	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300566
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Preputial Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
OBSERVATIONS			
Adrenal Medulla	Bilateral	Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-5]			
Lung		Infiltration Cellular	Histiocytic, Mild
		Metaplasia	Osseous, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Seminal Vesicle		Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 566	TRT#: 9	SEX: Male	DAY ON TEST: 738
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300566

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 567	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300567
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
MISSING			
Thymus			
OBSERVATIONS			
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Biliar Tract	Fibrosis	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mesenteric		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Moderate
[Degeneration TGLS = 3-9.1]			
[Hyperplasia TGLS = 3-9.1]			
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH			
	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 567	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300567
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ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 568	TRT#: 11	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Trachea	Urethra
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Pigmentation	Mild
		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Int Lg Rectum			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
		Infiltration Cellular	Lymphocyte, Minimal
[Cyst TGLS = 4,5-2.1]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	Pancreatic	Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 7-13.1]			
[Infiltration Cellular TGLS = 7-13.1]			
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 568	TRT#: 11	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300568
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
[Degeneration TGLS = 3-6.2]			
[Infiltration Cellular TGLS = 3-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Mild
Testes	Artery	Mineralization	Moderate
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urethra			
Note: TGL # 06 - BULBOURETHRAL GLAND WITHIN NORMAL LIMITS			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH		-	
Animal Note: TGL # 06 - Noted grossly as Int. Lg, Anus was Urethra, Bulbourethral Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 569	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300569
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Islets, Pancreatic		Hyperplasia	Moderate
Kidney	Cortex	Cyst	
	Pelvis	Dilatation	Minimal
[Cyst TGLS = 2-2]		Nephropathy	Chronic, Minimal
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 5-5]		Tension Lipidosis	Moderate
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 4-3]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-6.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 569	TRT#: 8	SEX: Male	DAY ON TEST: 739
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300569
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 570	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300570
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Pancreas	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Hyperplasia	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 7-8]			
Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
Kidney		Adenoma	Tubular
	Cortex	Cyst	
	Medulla	Cyst	
	Pelvis	Hyperplasia	Mild
[Cyst TGLS = 3,4-2]		Nephropathy	Chronic, Mild
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 5-13]			
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 570	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300570
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Degeneration Infiltration Cellular	Mild Lymphocyte, Minimal
[Degeneration TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration Inflammation	Minimal Suppurative, Minimal
Skin		Inflammation Necrosis	Suppurative, Marked Mild
[Inflammation TGLS = 1-5.3]			
[Necrosis TGLS = 1-5.3]			
Spleen		Hyperplasia Pigmentation	Lymphoid, Mild Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 571	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300571
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
		Metaplasia	Osseous, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			
Pancreas		Basophilic Focus	
	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 571	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300571
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 2-5.3] [Sarcoma TGLS = 1-5.2]		Sarcoma	
Spleen		Hyperplasia	Lymphoid, Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 572	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300572
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Eye	Heart	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Pituitary Gland	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
Brain	Cerebellum	Granular Cell Tumor Malignant	
Coagulat GI			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 12-9]			
Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 10-13]			
Liver		Eosinophilic Focus	Multiple
	Biliar Tract	Fibrosis	Mild
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
Lung			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 572	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300572
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node	Lumbar Lumbar Mediastinal	Hyperplasia Infiltration Cellular Infiltration Cellular	Lymphoid, Marked Plasma Cell, Marked Plasma Cell, Moderate
Note: TGL # 01 - NO MICROSCOPIC CORRELATE (LYMPH NODE, PANCREATIC)			
[Hyperplasia TGLS = 6-13.2]			
[Infiltration Cellular TGLS = 6-13.2]			
[Infiltration Cellular TGLS = 7-13.3]			
Lymph Node, Mandibular		Hyperplasia Infiltration Cellular	Lymphoid, Moderate Plasma Cell, Marked
Lymph Node, Mesenteric		Infiltration Cellular Inflammation	Mast Cell, Mild Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
Note: TGL # 04 - No Microscopic Correlate			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 8-5.2]			
Stomach, Forestomach		Hyperplasia Inflammation	Mild Chronic Active, Mild
[Hyperplasia TGLS = 11-9]			
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-13.4]			
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 573

TRT#: 12

SEX: Male

DAY ON TEST: 739

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric
Nose	Pancreas	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Degeneration	Cystic, Mild
[Degeneration TGLS = 4-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Moderate
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 573	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300573
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 574

TRT#: 12

SEX: Male

DAY ON TEST: 739

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13]			
Liver		Basophilic Focus	
		Eosinophilic Focus	Multiple
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 4-5]			
[Eosinophilic Focus TGLS = 4-5]			
[Hyperplasia TGLS = 4-5]			
Lung			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
[Degeneration TGLS = 5-13.1]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 574	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300574
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Degeneration	Mild
Preputial Gland	Duct	Hyperplasia	Mild
		Dilatation	Marked
		Inflammation	Suppurative, Mild
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-6.3]			
Spleen		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 8-5]			
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 6-13.2]			
Thymus	Epithel Cell	Hyperplasia	Moderate
		Hyperplasia	Lymphoid, Moderate
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 575	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300575
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 2-3]		Degeneration	Cystic, Marked
Heart	Epicardium	Hyperplasia	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney [Cyst TGLS = 3-2]	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Lacrimal Gland [Ectopic Harderian TGLS = 1-13]		Ectopic Harderian	
Liver	Bile Duct	Hyperplasia	Minimal
Lung [Infiltration Cellular TGLS = 4-10]		Infiltration Cellular	Histiocyte, Mild
Mammary Gland		Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Moderate
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 576	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300576
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver		Inflammation	Chronic Active, Minimal
Lung		Hemorrhage	Mild
	Artery	Infiltration Cellular	Histiocyte, Mild
		Mineralization	Minimal
[Hemorrhage TGLS = 3-10]			
[Infiltration Cellular TGLS = 3-10]			
[Mineralization TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Marked
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 576	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300576
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen	Capsule	Fibrosis	Mild
[Fibrosis TGLS = 4-5]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 577	TRT#: 12	SEX: Male	DAY ON TEST: 738
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
		Polyarteritis	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Liver		Angiectasis	Mild
		Hepatocellular Adenoma	
[Angiectasis TGLS = 2-5]			
[Hepatocellular Adenoma TGLS = 3-5]			
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Sarcoma	
[Sarcoma TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 577	TRT#: 12	SEX: Male	DAY ON TEST: 738
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300577

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 578	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300578
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Hemorrhage	Marked
[Hemorrhage TGLS = 2-10]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 1-1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Note: TGL # 01 - NOTED GROSSLY AS THYMUS WAS LYMPH NODE, MEDIASTINAL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 578	TRT#: 14	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300578

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 579	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300579
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Medulla		Infiltration Cellular	Lymphocyte, Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Basophilic Focus	
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Parathyroid Gland			

Note: PATHOLOGIST NOTED: RECUT ATTEMPTED

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 579	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300579
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 580	TRT#: 14	SEX: Male	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300580
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Lung	Nose	Pancreas	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		
MISSING			
Intestine Large, Rectum			
AUTO PRECLUDES DIAG.			
Intestine Small, IleumIntestine Small, Jejunum			

OBSERVATIONS			
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Int Lg Rectum			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 7-2.1]			
Liver		Angiectasis	Mild
	Capsule	Fibrosis	Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Angiectasis TGLS = 3,4-5.2]			
[Fibrosis TGLS = 3,4-5.2]			
[Infiltration Cellular TGLS = 3,4-5.2]			
Lung			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
		Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 580	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300580
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric [Degeneration TGLS = 2-9.2]		Degeneration	Cystic, Marked
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin [Inflammation TGLS = 1-5.3]		Inflammation	Suppurative, Marked
Thymus [Atrophy TGLS = 6-1]		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 583	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 737 HISTO: 21320300583
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Heart	Parathyroid Gland
Rete Testes			
MISSING			
Prostate, Ventral Lobe			
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Nose
Pancreas	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Islets, Pancreatic		Adenoma	
Kidney			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Pituitary Gland	Pars Distalis	Adenoma	
		Autolysis	Marked
[Adenoma TGLS = 1-3]			
Preputial Gland		Autolysis	Marked
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Autolysis	Marked
		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 2-5.1]			
Testes		Autolysis	Marked
Note: PATHOLOGIST NOTED: NORMAL SECTION OF TESTES WAS AUTOLYSIS PRECLUDES DIAGNOSIS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 583	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: F1 100PPM/CTL	DISP: Natural Death	HISTO: 21320300583

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 584	TRT#: 10	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Mammary Gland	Nose
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla	Bilateral	Hyperplasia	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver		Inflammation	Chronic Active, Mild
		Necrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3,4-10+10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 584	TRT#: 10	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300584
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 585	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300585
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla	Bilateral	Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Tension Lipidosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 5-13]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 4-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Basal Cell Adenoma	
		Inflammation	Chronic Active, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 585	TRT#: 9	SEX: Male	DAY ON TEST: 739
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300585
ORGAN AND ACCOUNTABLE SITE STATUS			
		Inflammation	Suppurative, Marked
		Necrosis	Moderate
[Basal Cell Adenoma TGLS = 1-5]			
[Inflammation TGLS = 2-5.2]			
[Inflammation TGLS = 3-5.3]			
[Necrosis TGLS = 2-5.2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 586	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300586
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Pancreas
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Stomach, Forestomach

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Basophilic Focus	
	Biliar Tract	Fibrosis	Minimal
	Capsule	Hemorrhage	Mild
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
[Basophilic Focus TGLS = 8-5]			
[Fibrosis TGLS = 8-5]			
[Hemorrhage TGLS = 8-5]			
[Inflammation TGLS = 8-5]			
[Vacuolization Cytoplasmic TGLS = 8-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 586	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300586
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 9,10-10] [Inflammation TGLS = 9,10-10]		Inflammation	Chronic, Mild
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Hyperplasia	Lymphoid, Mild
	Pancreatic	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
	Pancreatic	Inflammation	Granulomatous, Mild
Note: PATHOLOGIST NOTED: LYMPH NODE, MEDIASTINAL MISSING			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE (LYMPH NODE, MEDIASTINAL)			
[Degeneration TGLS = 6-13.1] [Hyperplasia TGLS = 6-13.1] [Hyperplasia TGLS = 4-13.3] [Infiltration Cellular TGLS = 6-13.1] [Inflammation TGLS = 4-13.3]			
Lymph Node, Mandibular		Hyperplasia Infiltration Cellular	Lymphoid, Moderate Plasma Cell, Mild
[Hyperplasia TGLS = 2-12] [Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Minimal
[Degeneration TGLS = 3-6.2] [Inflammation TGLS = 3-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 11-5.2]			
Stom Forestom			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 586	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300586
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus Note: PATHOLOGIST NOTED: THYMUS PRESENT ON SLIDE # 13B(13.2)		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 587	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300587
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Medulla		Hyperplasia	Mild
Harderian Gland		Degeneration	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 1-2]		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin			
Note: TGL # 03 - NO SECTION TAKEN			
Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 587	TRT#: 9	SEX: Male	DAY ON TEST: 739
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300587

ORGAN AND ACCOUNTABLE SITE STATUS		
Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH	-
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Animal Note: TGL # 02 - Noted grossly as Mesentery was Lymph Node, Mesenteric

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 588	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300588
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lymph Node, Mesenteric	Nose	Pancreas	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
MISSING			
Thymus			
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4-3]			
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
		Hyperplasia	Mild
[Adenoma TGLS = 2-5]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 5-2]			
Liver		Angiectasis	Mild
		Eosinophilic Focus	Multiple
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
[Angiectasis TGLS = 3-5]			
[Eosinophilic Focus TGLS = 3-5]			
[Fibrosis TGLS = 3-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 588	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300588
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 3-5]			
Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	Multiple
	Pars Distalis	Hyperplasia	Marked
[Cyst TGLS = 6-3]			
[Hyperplasia TGLS = 6-3]			
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Moderate
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 589	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300589
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Minimal
	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 1-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Mammary Gland		Lactation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 590	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300590
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Medulla		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Basophilic Focus	
	Biliar Tract	Fibrosis	Mild
[Basophilic Focus TGLS = 1-5]			
[Fibrosis TGLS = 1-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 590	TRT#: 11	SEX: Male	DAY ON TEST: 739
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300590
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 591	TRT#: 11	SEX: Male	DAY ON TEST: 739
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Intestine Small, Duodenum		Hemorrhage	Mild
		Inflammation	Suppurative, Moderate
		Necrosis	Mild
[Hemorrhage TGLS = 5-9.2]			
[Inflammation TGLS = 5-9.2]			
[Necrosis TGLS = 5-9.2]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Minimal
		Angiectasis	Minimal
		Fibrosis	Minimal
	Biliar Tract	Hyperplasia	Minimal
	Bile Duct	Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 3-12]			
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 591	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300591
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell Duct	Degeneration Dilatation Inflammation	Minimal Marked Suppurative, Mild
[Degeneration TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Rete Testes		Dilatation	Moderate
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 592	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300592
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Nose	Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Islets, Pancreatic		Adenoma	
		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Granulomatous, Mild
Mammary Gland	Duct	Dilatation	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 592	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300592
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 593	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300593
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mesenteric	Mammary Gland	Parathyroid Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Kidney		Congestion Nephropathy	Mild Chronic, Minimal
[Congestion TGLS = 4-2] [Nephropathy TGLS = 4-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Infiltration Cellular	Minimal Histiocyte, Moderate Lymphocyte, Minimal
[Hyperplasia TGLS = 5-10] [Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-12]			
Nose		Inflammation	Suppurative, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Multiple
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 593	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300593
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Marked
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 594	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300594
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Brain	Cerebellum	Granular Cell Tumor Benign	
Heart		Cardiomyopathy	Minimal
		Metaplasia	Osseous, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Tension Lipidosis	Moderate
[Tension Lipidosis TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:52

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 594	TRT#: 12	SEX: Male	DAY ON TEST: 739
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300594
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 595	TRT#: 12	SEX: Male	DAY ON TEST: 739
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Pancreas	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
Note: PATHOLOGIST NOTED: RIGHT ADRENAL MEDULLA, PHEOCHROM BENIGN [Pheochromocytoma Malignant TGLS = 1-3]			
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Skin		Inflammation	Suppurative, Marked
		Squamous Cell Carcinoma	
[Inflammation TGLS = 4-5.2]			
[Squamous Cell Carcinoma TGLS = 2-5]			
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 595	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300595
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 596	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300596
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver		Eosinophilic Focus	Multiple
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	Pancreatic	Inflammation	Granulomatous, Minimal
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE (LYMPH NODE, MEDIASTINAL)			
Note: PATHOLOGIST NOTED: LYMPH NODE, MEDIASTINAL MISSING			
[Hyperplasia TGLS = 3-13]			
[Inflammation TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Rete Testes		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 596	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300596
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 1-5.2]		Inflammation	Chronic Active, Mild
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Moderate
		Polyarteritis	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	Follicular Cel	Cyst	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 597

TRT#: 12

SEX: Male

DAY ON TEST: 739

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Parathyroid Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Kidney	Pelvis	Dilatation	Mild
		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 5-13.2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Popliteal	Degeneration	Cystic, Mild
	Popliteal	Hyperplasia	Lymphoid, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
	Popliteal	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-13]			
[Degeneration TGLS = 3-13.1]			
[Hyperplasia TGLS = 3-13.1]			
[Infiltration Cellular TGLS = 3-13.1]			
[Infiltration Cellular TGLS = 2-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 597	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300597
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 1-6.2]			
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
[Inflammation TGLS = 4-5.2]			
[Necrosis TGLS = 4-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:52
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 598	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300598
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular
Mammary Gland	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Harderian Gland		Degeneration	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3,4-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 599	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300599
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 1-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Adenoma	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 600

TRT#: 14

SEX: Male

DAY ON TEST: 739

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea			

OBSERVATIONS

Epididymis		Degeneration	Mild
		Hypospermia	Marked
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 2-12]			
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland		Inflammation	Suppurative, Marked
Skin		Fibroma	
		Inflammation	Suppurative, Marked
[Fibroma TGLS = 5-5.3]			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 600	TRT#: 14	SEX: Male	DAY ON TEST: 739
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300600
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
Urinary Bladder		Dilatation	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 601

TRT#: 14

SEX: Male

DAY ON TEST: 739

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Nose	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 2-6.1]			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 3-2]			
Liver		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 601	TRT#: 14	SEX: Male	DAY ON TEST: 739
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300601

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 602	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300602
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 1-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Adenoma	
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 603

TRT#: 8

SEX: Male

DAY ON TEST: 739

DOSE: F1 0PPM

DISP: Terminal Sacrifice

HISTO: 21320300603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Nose	Pancreas	Preputial Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Brain [Compression TGLS = 4-8]	Brain Stem	Compression	Mild
Kidney	Renal Tubule	Mineralization	Minimal
Lung [Infiltration Cellular TGLS = 2-10]		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular [Hyperplasia TGLS = 1-12] [Infiltration Cellular TGLS = 1-12]		Hyperplasia Infiltration Cellular	Lymphoid, Mild Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Mammary Gland		Degeneration Lactation	Mild Mild
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin [Inflammation TGLS = 3-5.2]		Inflammation	Chronic, Mild
Spleen		Pigmentation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 603	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300603
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 604

TRT#: 8

SEX: Male

DAY ON TEST: 739

DOSE: F1 0PPM

DISP: Terminal Sacrifice

HISTO: 21320300604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Rete Testes
Salivary Glands	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Stomach, Forestomach

INSUFFICIENT TISSUE

Skin

OBSERVATIONS

Coagulating Gland [Adenocarcinoma TGLS = 4-6.1]		Adenocarcinoma	Metastatic (Prostate)
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Dilatation	Moderate
	Renal Tubule	Dilatation	Moderate
		Nephropathy	Chronic, Moderate
[Dilatation TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 3-10]			
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Mammary Gland		Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 604	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300604
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Prostate, Dorsal Lobe		Adenocarcinoma	
Prostate, Ventral Lobe		Adenocarcinoma	
Seminal Vesicle		Adenocarcinoma	Metastatic (Prostate)
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 605	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300605
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Lung		Metaplasia	Osseous, Minimal
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Minimal
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hyperplasia	Lymphoid, Minimal
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 620	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300620
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Kidney	Lung	Nose
Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Minimal
Epididymis		Mesothelioma Malignant	
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Moderate
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
		Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 1-13]			
[Infiltration Cellular TGLS = 1-13]			
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
[Adenoma TGLS = 3-3]			
[Cyst TGLS = 3-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 620	TRT#: 10	SEX: Male	DAY ON TEST: 738
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300620

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Mesothelioma Malignant	
	Atrophy	Moderate

PRIMARY CAUSE OF DEATH	-
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Animal Note: TGL # 01 - Noted grossly as Mesentery was Lymph Node, Mesenteric

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 622	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 695 HISTO: 21320300622
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Epididymis
* Esophagus	* Heart	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	Rete Testes	* Salivary Glands	* Skin
* Stomach, Forestomach	* Testes		
MISSING			
* Mammary Gland	Prostate, Ventral Lobe		
AUTO PRECLUDES DIAG.			
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	Lymph Node	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Autolysis	Moderate
		Degeneration	Cystic, Moderate
	Capsule	Fibrosis	Mild
Coagulating Gland		Autolysis	Marked
		Inflammation	Suppurative, Moderate
* Kidney		Autolysis	Mild
	Pelvis	Dilatation	Mild
	Pelvis	Hyperplasia	Mild
	Pelvis	Inflammation	Suppurative, Marked
[Dilatation TGLS = 1-2]			
* Liver		Autolysis	Mild
	Biliar Tract	Fibrosis	Minimal
		Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE (LYMPH NODE, MEDIASTINAL)			
Prostate, Dorsal Lobe		Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 622	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 695 HISTO: 21320300622
ORGAN AND ACCOUNTABLE SITE STATUS			
* Seminal Vesicle		Inflammation	Suppurative, Marked
[Inflammation TGLS = 6-6.1]		Autolysis	Marked
* Spleen		Inflammation	Suppurative, Marked
[Pigmentation TGLS = 5-5]		Autolysis	Moderate
* Urinary Bladder		Pigmentation	Mild
[Dilatation TGLS = 3-2.1]		Dilatation	Marked
Transit Epithe		Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
PRIMARY CAUSE OF DEATH	- Kidney Pelvis Inflammation		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 624

TRT#: 12

SEX: Male

DAY ON TEST: 739

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis		Degeneration	Moderate
		Hypospermia	Marked
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Lung		Fibrosarcoma	Metastatic (Skin)
Lymph Node, Mandibular		Fibrosarcoma	Metastatic (Skin)
		Infiltration Cellular	Plasma Cell, Marked
Mammary Gland		Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Inflammation	Suppurative, Moderate
[Degeneration TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Minimal
Salivary Glands		Atrophy	Moderate
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 3-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 624	TRT#: 12	SEX: Male	DAY ON TEST: 739
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300624
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Fibrosarcoma	
[Fibrosarcoma TGLS = 1-5.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Mild
[Degeneration TGLS = 4-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Skin Fibrosarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 627	TRT#: 11	SEX: Male	DAY ON TEST: 743
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mandibular	Nose	Pancreas	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Eye		Cataract	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Note: TGL # 04 - NO MICROSCOPIC CORRELATE [Cyst TGLS = 5-2]			
Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 2-5]			
Lung		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 6-13] [Infiltration Cellular TGLS = 6-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 7-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 627	TRT#: 11	SEX: Male	DAY ON TEST: 743
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300627
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Note: TGL # 03 - No Microscopic Correlate			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 628	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300628
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Parathyroid Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

MISSING

Pituitary Gland			
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OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
	Pelvis	Mineralization	Mild
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
[Hyperplasia TGLS = 3-2]			
[Mineralization TGLS = 3-2]			
[Nephropathy TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
		Infiltration Cellular	Histiocyte, Moderate
Lung			
[Infiltration Cellular TGLS = 4-10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 628	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300628
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Infiltration Cellular Inflammation	Plasma Cell, Moderate Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Duct	Dilatation Inflammation	Moderate Suppurative, Mild
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 629	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300629
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
	Alveolus	Hyperplasia	Minimal
[Adenocarcinoma TGLS = 1-5]			
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 630	TRT#: 10	SEX: Male	DAY ON TEST: 743
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300630
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Degeneration	Mild
[Inflammation TGLS = 1-5]		Inflammation	Suppurative, Marked
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 631	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300631
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Islets, Pancreatic

OBSERVATIONS

Islets Panc			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
[Cyst TGLS = 4,6-2]			
[Nephropathy TGLS = 4,6-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Biliar Tract	Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Minimal
[Infiltration Cellular TGLS = 5-10]			
[Metaplasia TGLS = 5-10]			
Pancreas			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 631	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300631
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Infiltration Cellular	Lymphocyte, Minimal
		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 3-5]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 632	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300632
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Dilatation	Minimal
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
[Dilatation TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 6-10]			
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Renal	Degeneration	Cystic, Marked
	Renal	Hyperplasia	Lymphoid, Moderate
	Renal	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Hyperplasia TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 632	TRT#: 13	SEX: Male	DAY ON TEST: 742
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300632
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Duct	Dilatation	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 04 - Noted grossly as Ureter was Lymph Node, Renal			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 633	TRT#: 14	SEX: Male	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
		Hyperplasia	Mild
[Adenoma TGLS = 5-13]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 6-2]			
Liver		Cyst	
		Eosinophilic Focus	
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
[Cyst TGLS = 2,4-5.2]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 633	TRT#: 14	SEX: Male	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300633
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Minimal
		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 05 - Noted grossly as Lymph Node, Pancreatic was Islets Pancreas			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 634	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300634
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Small, Jejunum

OBSERVATIONS

Bone Marrow	Erythroid Cell Myeloid Cell	Hyperplasia Hyperplasia Cardiomyopathy Adenoma Polyarteritis	Mild Mild Minimal Moderate
[Adenoma TGLS = 6-9]			
Kidney	Cortex	Cyst Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia Infiltration Cellular Infiltration Cellular	Minimal Lymphocyte, Minimal Histiocyte, Mild
Lung			
Note: TGL # 04 - NO SECTION TAKEN			
[Infiltration Cellular TGLS = 3,5,7-10+10.1]			
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Cyst Epithelial Inclusion Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 634	TRT#: 14	SEX: Male	DAY ON TEST: 743
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300634
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst Epithelial Inclusion TGLS = 1-5.2]			
[Inflammation TGLS = 2-5.3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 635	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300635
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	
OBSERVATIONS			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Lung	Artery	Mineralization	Minimal
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Suppurative, Marked
		Necrosis	Marked
[Inflammation TGLS = 1-5.2]			
[Necrosis TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 3-3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 636	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300636
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 637	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300637
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Capsule	Fatty Change	
		Fibrosis	Mild
		Inflammation	Chronic, Minimal
[Fatty Change TGSL = 3-2]			
[Fibrosis TGSL = 3-2]			
[Inflammation TGSL = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGSL = 2-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGSL = 1-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
		Inflammation	Chronic Active, Mild
Nose		Degeneration	Mild
Pancreas	Acinar Cell	Cyst	
Pituitary Gland	Pars Distalis	Degeneration	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 637	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300637
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 638	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300638
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Ileum
Lung	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Nose

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Coagulating Gland		Degeneration	Mild
Harderian Gland		Degeneration	Minimal
Intestine Small, Duodenum	Serosa	Polyarteritis	Moderate
Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 6-9.2]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
	Renal Tubule	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Marked
[Cyst TGLS = 3-2]			
Liver		Angiectasis	Minimal
		Basophilic Focus	
		Hemorrhage	Mild
[Angiectasis TGLS = 1-5]			
[Basophilic Focus TGLS = 1-5]			
Lymph Node	Pancreatic	Inflammation	Granulomatous, Mild
	Adventitia, Pancreatic	Polyarteritis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 638	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300638
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 2-13]			
[Polyarteritis TGLS = 2-13]			
Lymph Node, Mandibular		Degeneration Infiltration Cellular	Cystic, Marked Plasma Cell, Marked
[Degeneration TGLS = 5-12]			
[Infiltration Cellular TGLS = 5-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Nose			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Pancreas	Acinar Cell	Degeneration Inflammation	Marked Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 4-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Testes		Polyarteritis	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 639	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300639
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Coagulating Gland	Epididymis	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Liver	Lung
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Eye

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
Brain	Brain Stem	Compression	Mild
	Cerebrum	Hydrocephalus	Moderate
[Hydrocephalus TGLS = 3-8]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Multiple
	Pars Distalis	Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 639	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300639
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 656	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300656
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Mammary Gland
Nose	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			
MISSING			
Thymus			
OBSERVATIONS			
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Bilateral, Retina	Atrophy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 1-13]			
[Infiltration Cellular TGLS = 1-13]			
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Degeneration	Minimal
		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 656	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300656
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 01 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 657	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300657
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
OBSERVATIONS			
Eye	Bilateral, Retina	Atrophy	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Pancreas	Acinar Cell	Degeneration	Marked
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Cyst Epithelial Inclusion	
		Inflammation	Suppurative, Marked
[Cyst Epithelial Inclusion TGLS = 2-5.3]			
[Inflammation TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 657	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300657
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 658	TRT#: 9	SEX: Male	DAY ON TEST: 742
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lymph Node, Mandibular	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Vacuolization Cytoplasmic	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 8-8]			
Harderian Gland		Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
[Cyst TGLS = 5-2]			
Lung	Artery	Mineralization	Minimal
Lymph Node		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 9-13]			
[Infiltration Cellular TGLS = 9-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Duct	Dilatation	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 658	TRT#: 9	SEX: Male	DAY ON TEST: 742
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300658
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 4-6]			
Prostate, Ventral Lobe		Degeneration	Marked
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 3-5]			
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 09 - Noted grossly as Ureter was Lymph Node			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 659

TRT#: 9

SEX: Male

DAY ON TEST: 742

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Minimal
[Cyst TGSL = 4-2]			
Liver		Angiectasis	Moderate
		Degeneration	Cystic, Mild
[Angiectasis TGSL = 2,3-5+5.3]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGSL = 5-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGSL = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 659	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300659
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid G1			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 660

TRT#: 11

SEX: Male

DAY ON TEST: 742

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Pancreas	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Benign	
Heart		Polyarteritis	Minimal
Kidney	Cortex	Cyst	
	Renal Tubule	Mineralization	Mild
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Polyarteritis	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Polyarteritis	Mild
Mammary Gland		Lactation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 2-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 660	TRT#: 11	SEX: Male	DAY ON TEST: 742
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300660
ORGAN AND ACCOUNTABLE SITE STATUS			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
		Polyarteritis	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 673	TRT#: 11	SEX: Male	DAY ON TEST: 744
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Brain	Cerebrum	Mineralization	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung	Peribronchial	Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 674	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300674
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lymph Node, Mandibular	Nose	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Brain	Cerebrum	Granular Cell Tumor Malignant	
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2,3-10+10.1]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Mild
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 675	TRT#: 9	SEX: Male	DAY ON TEST: 743
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 675	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300675
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Carcinoma	
		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 676	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Lung
Lymph Node, Mandibular	Mammary Gland	Nose	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
		Metaplasia	Osseous, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Angiectasis	Minimal
[Angiectasis TGLS = 3-5]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-13.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 676	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300676
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 677

TRT#: 10

SEX: Male

DAY ON TEST: 744

DOSE: F1 100PPM

DISP: Terminal Sacrifice

HISTO: 21320300677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney		Fatty Change	Mild
		Hyperplasia	Tubular, Moderate
		Infiltration Cellular	Lymphocyte, Mild
[Hyperplasia TGLS = 4-2]			
[Infiltration Cellular TGLS = 4-2]			
Liver		Cyst	
	Biliar Tract	Fibrosis	Minimal
[Cyst TGLS = 3-5]			
Lung		Hemorrhage	Marked
[Hemorrhage TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 677	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300677
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 678	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Angiectasis	Mild
		Vacuolization Cytoplasmic	Mild
[Angiectasis TGLS = 6-5]			
Lung	Alveolar Epith	Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Marked
[Hyperplasia TGLS = 3-10]			
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hemorrhage	Moderate
		Hyperplasia	Lymphoid, Mild
[Hemorrhage TGLS = 5-9.1]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 678	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300678
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 679	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300679
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Medulla		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1,2-5.1+5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 679	TRT#: 13	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300679

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 680

TRT#: 14

SEX: Male

DAY ON TEST: 744

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate, Dorsal Lobe	Rete Testes	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2,5-10+10.1]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Minimal
[Degeneration TGLS = 4-9.1]			
[Hyperplasia TGLS = 4-9.1]			
Mammary Gland		Degeneration	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Degeneration	Moderate
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 1-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 680	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300680
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 681	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300681
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mandibular	Prostate, Ventral Lobe	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Moderate
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Kidney		Nephropathy	Chronic, Minimal
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lung			
Note: TGL # 06 & 07 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 681	TRT#: 13	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300681
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Atrophy	Mild
		Degeneration	Minimal
[Infiltration Cellular TGLS = 1-6.2]		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe	Seminif Tub	Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes		Degeneration	Marked
[Degeneration TGLS = 2-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 682	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300682
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Cortex	Adrenal Medulla
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OBSERVATIONS

Adren Cortex			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Adren Medulla			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
[Cyst TGLS = 2-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13]			
Liver		Eosinophilic Focus	Multiple
		Inflammation	Chronic Active, Minimal
Lung		Metaplasia	Osseous, Mild
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
[Metaplasia TGLS = 4-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 682	TRT#: 14	SEX: Male	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300682
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 683	TRT#: 8	SEX: Male	DAY ON TEST: 744
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 4-6.1]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Inflammation	Chronic Active, Minimal
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
		Inflammation	Granulomatous, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Marked
		Squamous Cell Carcinoma	
[Inflammation TGLS = 1-6.2]			
[Squamous Cell Carcinoma TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 683	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300683
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 684	TRT#: 8	SEX: Male	DAY ON TEST: 744
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

MISSING

Preputial Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Capsule	Fibrosis	Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Fibrosis TGLS = 2,3-5]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Hyperplasia TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Mammary Gland		Degeneration	Minimal
Preputial GI			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 684	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300684
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Degeneration Infiltration Cellular	Mild Lymphocyte, Minimal
Saliv Glands Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 6B(6.2)			
Skin [Inflammation TGLS = 1-5.2] [Necrosis TGLS = 1-5.2]		Inflammation Necrosis	Suppurative, Marked Moderate
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 685	TRT#: 12	SEX: Male	DAY ON TEST: 743
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mandibular	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 693

TRT#: 8

SEX: Male

DAY ON TEST: 743

DOSE: F1 0PPM

DISP: Terminal Sacrifice

HISTO: 21320300693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Parathyroid Gland	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-3]			
Eye	Retina	Atrophy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
[Hepatocellular Adenoma TGLS = 5-5]			
Lung	Alveolar Epith	Hemorrhage	Marked
		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
[Hemorrhage TGLS = 3-10]			
[Hyperplasia TGLS = 3-10]			
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 693	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300693
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Mild
Nose		Inflammation	Suppurative, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Inflammation	Suppurative, Marked
Testes		Polyarteritis	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 694	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300694
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular
Nose	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Moderate
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Angiectasis	Minimal
		Fibrosis	Minimal
		Hemorrhage	Mild
[Angiectasis TGLS = 2-5]			
[Hemorrhage TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland	Bilateral	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
[Adenoma TGLS = 5-3]			
Preputial Gland	Duct	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 694	TRT#: 9	SEX: Male	DAY ON TEST: 743
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300694
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 695	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300695
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mandibular	Nose	Pancreas	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow		Hypocellularity	Mild
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 5-6.1]			
Epididymis		Degeneration	Mild
		Hypospermia	Marked
[Hypospermia TGLS = 4-6.2]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Marked
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
[Degeneration TGLS = 2-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 695	TRT#: 9	SEX: Male	DAY ON TEST: 743
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300695
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 696	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300696
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Harderian Gland		Degeneration	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver		Cholangiofibrosis	Moderate
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 3-10]			
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Degeneration	Mild
Preputial Gland		Abscess	Marked
	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 696	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300696
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 697

TRT#: 11

SEX: Male

DAY ON TEST: 743

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Benign	
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
		Keratoacanthoma	
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 697	TRT#: 11	SEX: Male	DAY ON TEST: 743
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300697
ORGAN AND ACCOUNTABLE SITE STATUS			
[Keratoacanthoma TGLS = 2-5.2]			
Spleen		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 698

TRT#: 9

SEX: Male

DAY ON TEST: 743

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Hyperplasia	Mild
Parathyroid Gland			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
Seminal Vesicle		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-5]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 698	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300698
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 699

TRT#: 8

SEX: Male

DAY ON TEST: 743

DOSE: F1 0PPM

DISP: Terminal Sacrifice

HISTO: 21320300699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Mild
[Degeneration TGLS = 1-6.2]			
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Lipoma	
[Lipoma TGLS = 2-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 699	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300699
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
Urinary Bladder		Hemorrhage	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 700	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300700
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Mammary Gland	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Coagulat GI			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 2-2]			
[Nephropathy TGLS = 2-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 711	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300711
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Pancreas	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 2-6.1]			
Epididymis		Polyarteritis	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Degeneration	Cystic, Mild
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Nose		Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Cyst	
		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 711	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300711
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 712	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300712
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lymph Node, Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 2-10]			
[Infiltration Cellular TGLS = 2-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 713	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300713
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 2-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 713	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300713
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
Thyroid Gland		Inflammation	Chronic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 714	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300714
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
MISSING			
Thymus			
INSUFFICIENT TISSUE			
Rete Testes			
OBSERVATIONS			
Epididymis			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Eye	Retina	Atrophy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver		Eosinophilic Focus	Multiple
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
[Adenoma TGLS = 6-3]			
Preputial Gland	Parenchym Cell	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 714	TRT#: 8	SEX: Male	DAY ON TEST: 744
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300714
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe Skin [Fibrosis TGLS = 2-5.3] [Inflammation TGLS = 1-5.2] Spleen Testes [Degeneration TGLS = 3-7] Thymus Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED	Duct	Dilatation Infiltration Cellular Inflammation Fibrosis Inflammation	Moderate Lymphocyte, Moderate Suppurative, Mild Moderate Suppurative, Marked
	Seminif Tub	Pigmentation Degeneration	Minimal Marked
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 715	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300715
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Eye	Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Multiple
		Vacuolization Cytoplasmic	Mild
Lung			
Note: TGL # 04 & 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Moderate
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 3-13]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
Skin		Abscess	Marked
		Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Moderate
[Abscess TGLS = 2-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 715	TRT#: 9	SEX: Male	DAY ON TEST: 744
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300715
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 1-5]			
[Hyperplasia TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 716	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300716
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Parathyroid Gland	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Mild
[Angiectasis TGLS = 2-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 724	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300724
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Nose	Pancreas	Preputial Gland	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Heart		Cardiomyopathy	Mild
		Metaplasia	Osseous, Minimal
Kidney		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13.1]			
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Granulomatous, Mild
Lymph Node, Mesenteric		Degeneration	Moderate
Mammary Gland		Hyperplasia	Minimal
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Fibrosis	Mild
Rete Testes		Inflammation	Suppurative, Marked
Skin			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 724	TRT#: 10	SEX: Male	DAY ON TEST: 745
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300724
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 725	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Mild
Epididymis		Hypospermia	Marked
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
[Nephropathy TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Metaplasia	Osseous, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Rete Testes		Dilatation	Moderate
Skin		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 725	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300725
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes [Degeneration TGLS = 2-7]	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 726	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
[Nephropathy TGLS = 4-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 3-12]			
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 726	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300726
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 727	TRT#: 11	SEX: Male	DAY ON TEST: 745
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 2-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 728	TRT#: 11	SEX: Male	DAY ON TEST: 745
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6,7-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-5.2]			
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 728	TRT#: 11	SEX: Male	DAY ON TEST: 745
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300728

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH -

Animal Note: TGL # 04 - Noted grossly as Prostate, Ventral was Prostate, Dorsal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 729	TRT#: 11	SEX: Male	DAY ON TEST: 744
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Parathyroid Gland
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
	Myeloid Cell	Hyperplasia	Marked
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Chronic, Minimal
[Cyst TGSL = 5-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGSL = 2-13]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
[Degeneration TGSL = 4-13.1]			
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGSL = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Nose		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 729	TRT#: 11	SEX: Male	DAY ON TEST: 744
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300729
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
[Inflammation TGLS = 1-5.2]			
[Necrosis TGLS = 1-5.2]			
Spleen		Hyperplasia	Stromal, Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 730	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300730
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Pancreas	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Eosinophilic Focus	Multiple
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 2-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-5]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 731	TRT#: 9	SEX: Male	DAY ON TEST: 744
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Cyst	
Adrenal Medulla		Hyperplasia	Moderate
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Eosinophilic Focus	Multiple
Lymph Node, Mandibular		Degeneration	Cystic, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 732	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300732
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
INSUFFICIENT TISSUE			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Capsule	Fatty Change	
[Fatty Change TGLS = 1-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pituitary Gland	Pars Distalis	Cyst	Multiple
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 2-3]			
[Hyperplasia TGLS = 2-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 3-6.1]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 732	TRT#: 10	SEX: Male	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300732

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 733	TRT#: 13	SEX: Male	DAY ON TEST: 745
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Marked
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13]			
Liver		Angiectasis	Mild
		Basophilic Focus	
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 6-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 5-12]			
[Infiltration Cellular TGLS = 5-12]			
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 733	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300733
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Inflammation Squamous Cell Carcinoma	Suppurative, Marked
[Squamous Cell Carcinoma TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Schwannoma Benign	
[Schwannoma Benign TGLS = 2-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 734	TRT#: 13	SEX: Male	DAY ON TEST: 745
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Nose	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Cerebrum	Granular Cell Tumor Benign	
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 7-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Cyst	
[Cyst TGLS = 5-5]			
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland	Parenchym Cell	Degeneration	Marked
	Duct	Dilatation	Marked
		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 734	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300734
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 1-6.2]			
[Dilatation TGLS = 1-6.2]			
[Infiltration Cellular TGLS = 1-6.2]			
Rete Testes		Dilatation	Mild
Sem Ves			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 8-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 735	TRT#: 14	SEX: Male	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric
Mammary Gland	Nose	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Mild
[Angiectasis TGLS = 3,4-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Moderate
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 737	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Moribund	DAY ON TEST: 744 HISTO: 21320300737
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Mammary Gland	Nose	Pituitary Gland
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Eye		Cataract	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 5-2]		Infiltration Cellular	Lymphocyte, Minimal
Lacrimal Gland		Degeneration	Mild
[Degeneration TGLS = 1-13]		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-13]			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13.1]			
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Minimal
Preputial Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 737	TRT#: 12	SEX: Male	DAY ON TEST: 744
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300737
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 3-6]			
Prostate, Ventral Lobe		Degeneration	Minimal
Rete Testes		Dilatation	Minimal
Skin	Sebaceous Gl	Carcinoma	
		Inflammation	Suppurative, Marked
[Carcinoma TGLS = 6-5.1]			
[Inflammation TGLS = 6,7-5.1+5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Skin Sebaceous Gl Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 738	TRT#: 14	SEX: Male	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Mammary Gland	Nose	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Medulla		Hemorrhage Pheochromocytoma Malignant	Marked
[Pheochromocytoma Malignant TGLS = 3-3]			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Atrophy	Moderate
		Degeneration	Mild
		Hypospermia	Marked
[Atrophy TGLS = 5-6.2]			
[Degeneration TGLS = 5-6.2]			
[Hypospermia TGLS = 5-6.2]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver	Biliar Tract	Fibrosis	Minimal
		Vacuolization Cytoplasmic	Minimal
Lung		Congestion	Marked
[Congestion TGLS = 6-10]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 738	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300738
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Abscess	Marked
	Duct	Dilatation	Marked
[Abscess TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Moderate
Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
[Hyperkeratosis TGLS = 1-5.2]			
[Hyperplasia TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 4-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 739	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300739
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	
MISSING			
Parathyroid Gland			
OBSERVATIONS			
Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Spleen		Hyperplasia	Stromal, Marked
[Hyperplasia TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 740

TRT#: 12

SEX: Male

DAY ON TEST: 744

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland	Parenchym Cell	Degeneration	Mild
	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Salivary Glands	Acinar Cell	Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 741	TRT#: 12	SEX: Male	DAY ON TEST: 744
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Vacuolization Cytoplasmic	Cystic, Mild Mild Mild
[Degeneration TGLS = 2-3] [Hyperplasia TGLS = 2-3] [Vacuolization Cytoplasmic TGLS = 2-3]			
Kidney		Nephropathy	Chronic, Minimal
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Liver		Developmental Malformation	
Note: TGL # 05 - NO MICROSCOPIC CORRELATE [Developmental Malformation TGLS = 1-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
[Degeneration TGLS = 3-13]			
Lymph Node, Mandibular		Degeneration Infiltration Cellular	Cystic, Minimal Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Parathyroid Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 741	TRT#: 12	SEX: Male	DAY ON TEST: 744
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300741
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
		Necrosis	Moderate
[Inflammation TGLS = 6-5.2]			
[Necrosis TGLS = 6-5.2]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 742

TRT#: 8

SEX: Male

DAY ON TEST: 744

DOSE: F1 0PPM

DISP: Terminal Sacrifice

HISTO: 21320300742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Small, Jejunum		Adenocarcinoma	
[Adenocarcinoma TGLS = 3-9.1]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 6-2]			
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Lymphocyte, Mild
[Basophilic Focus TGLS = 5-5]			
[Hepatodiaphragmatic Nodule TGLS = 1-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
	Artery	Mineralization	Mild
[Infiltration Cellular TGLS = 4-10]			
[Mineralization TGLS = 4-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Mild
Nose		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 742	TRT#: 8	SEX: Male	DAY ON TEST: 744
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300742
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Squam Epithel	Metaplasia	Mild
Pituitary Gland	Acinar Cell	Degeneration	Mild
	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 743	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Natural Death	DAY ON TEST: 744 HISTO: 21320300743
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Cerebellum	Brain - Cerebrum
Heart	Parathyroid Gland	Rete Testes	
AUTO PRECLUDES DIAG.			
Adrenal Cortex	Adrenal Medulla	Bone Marrow	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Nose	Pancreas	Preputial Gland
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Brain	Brain Stem	Autolysis	Marked
	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Lym Node Mand			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Pituitary Gland	Pars Distalis	Adenoma	
		Autolysis	Marked
[Adenoma TGLS = 4-3]			
Prostate, Dorsal Lobe		Autolysis	Marked
		Inflammation	Suppurative, Mild
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-5.1]			
Testes		Autolysis	Marked
Note: PATHOLOGIST NOTED: NORMAL SECTION OF TESTES WAS AUTOLYSIS PRECLUDES DIAGNOSIS			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 762	TRT#: 10	SEX: Male	DAY ON TEST: 747
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urethra	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Mild
		Infiltration Cellular	Lymphocyte, Mild
		Pigmentation	Mild
		Vacuolization Cytoplasmic	Mild
[Atrophy TGLS = 1-3]			
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
Note: TGL # 05 - NOTED GROSSLY AS LYMPH NODE, INGUINAL WAS URETHRA BULBOURETHRAL GLAND			
[Hyperplasia TGLS = 4-13.1]			
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 7-12]			
[Infiltration Cellular TGLS = 7-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 762	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 747 HISTO: 21320300762
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-6]			
Rete Testes		Dilatation	Minimal
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Urethra			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 763	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 747 HISTO: 21320300763
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Brain [Compression TGLS = 7-8]	Brain Stem	Compression	Mild
Heart		Cardiomyopathy	Minimal
Kidney [Nephropathy TGLS = 5-2]		Nephropathy	Chronic, Marked
Lacrimal Gland [Ectopic Harderian TGLS = 4-13]		Ectopic Harderian	
Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Lung [Infiltration Cellular TGLS = 9-10] [Metaplasia TGLS = 9-10]		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Minimal
Lymph Node [Degeneration TGLS = 6-13.1] [Infiltration Cellular TGLS = 6-13.1]	Lumbar Lumbar	Degeneration Infiltration Cellular	Cystic, Marked Plasma Cell, Marked
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Galactoceles	Marked
	Alveolus	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 763	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 747 HISTO: 21320300763
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 2-5.2]			
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
		Squamous Cell Carcinoma	
[Dilatation TGLS = 3-6.2]			
[Inflammation TGLS = 3-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 764	TRT#: 11	SEX: Male	DAY ON TEST: 746
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Eye		Inflammation	Chronic Active, Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
		Pigmentation	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 3-6.1]			
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 764	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 746 HISTO: 21320300764
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 765	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300765
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 766	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300766
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis		Degeneration	Minimal
		Hypospermia	Marked
		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 766	TRT#: 9	SEX: Male	DAY ON TEST: 745
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300766
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 4-3]			
[Hyperplasia TGLS = 4-3]			
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 03 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 767	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300767
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		

MISSING

Rete Testes

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lung	Artery	Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
		Inflammation	Granulomatous, Moderate
Mammary Gland		Degeneration	Marked
Nose		Metaplasia	Osseous, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Dilatation TGLS = 2-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 767	TRT#: 11	SEX: Male	DAY ON TEST: 745
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300767
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Thyroid Gland	C Cell	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 768

TRT#: 13

SEX: Male

DAY ON TEST: 746

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 769	TRT#: 13	SEX: Male	DAY ON TEST: 746
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Nose	Pancreas
Pituitary Gland	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 4-2]			
[Fatty Change TGLS = 4-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver		Tension Lipidosis	Moderate
[Tension Lipidosis TGLS = 3-5]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 769	TRT#: 13	SEX: Male	DAY ON TEST: 746
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300769
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 5-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 770	TRT#: 13	SEX: Male	DAY ON TEST: 746
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain	Cerebrum	Astrocytoma Malignant	
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild
		Inflammation	Granulomatous, Moderate
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 771

TRT#: 14

SEX: Male

DAY ON TEST: 745

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Nose	Pancreas
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Angiectasis	Mild
		Degeneration	Cystic, Mild
Adrenal Medulla		Pheochromocytoma Benign	
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Eye	Bilateral, Retina	Atrophy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2-10]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 771	TRT#: 14	SEX: Male	DAY ON TEST: 745
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300771
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 772	TRT#: 13	SEX: Male	DAY ON TEST: 745
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mesenteric	Nose	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Intermed	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Granulomatous, Marked
		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.2]			
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 772	TRT#: 13	SEX: Male	DAY ON TEST: 745
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300772

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 773

TRT#: 13

SEX: Male

DAY ON TEST: 745

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lymph Node, Mandibular
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Pituitary Gland

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Heart	Endocardium	Hyperplasia	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Capsule	Fatty Change	
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Mild
[Hyperplasia TGLS = 4-2]			
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gl			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Preputial Gland	Parenchym Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 773	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300773
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Seminal Vesicle		Inflammation	Suppurative, Mild
		Dilatation	Moderate
		Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
[Dilatation TGLS = 2-6.1]			
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-5]			
Spleen		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 3-5.2]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 774

TRT#: 12

SEX: Male

DAY ON TEST: 745

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney [Cyst TGLS = 3-2]	Cortex	Cyst	
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Preputial Gland [Dilatation TGLS = 2-6.2] [Inflammation TGLS = 2-6.2]	Duct	Dilatation Inflammation	Marked Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Marked
Skin [Inflammation TGLS = 1-5]		Inflammation	Suppurative, Marked
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 775	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300775
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus			
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Mild
[Angiectasis TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 775	TRT#: 8	SEX: Male	DAY ON TEST: 745
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300775
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 776	TRT#: 10	SEX: Male	DAY ON TEST: 745
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lymph Node, Mandibular	Nose	Parathyroid Gland
Pituitary Gland	Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis		Degeneration	Moderate
		Hypospermia	Marked
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
	Renal Tubule	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Cyst Epithelial Inclusion	
		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 776	TRT#: 10	SEX: Male	DAY ON TEST: 745
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300776
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst Epithelial Inclusion TGLS = 1-5.2]			
[Inflammation TGLS = 2-5]			
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 777	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300777
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Prostate, Dorsal Lobe	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Medulla		Hyperplasia	Minimal
Epididymis		Degeneration	Minimal
		Hypospermia	Marked
[Degeneration TGLS = 2-6.2]			
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Degeneration	Marked
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Adenoma	
Pituitary Gland	Pars Distalis	Infiltration Cellular	Lymphocyte, Minimal
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Fibrosis	Moderate
Rete Testes		Inflammation	Chronic, Minimal
Skin			
[Inflammation TGLS = 3-5]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-13]			
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 777	TRT#: 9	SEX: Male	DAY ON TEST: 745
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300777

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 778

TRT#: 8

SEX: Male

DAY ON TEST: 745

DOSE: F1 0PPM

DISP: Terminal Sacrifice

HISTO: 21320300778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Vacuolization Cytoplasmic	Minimal
Bone Marrow		Hypocellularity	Mild
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Eye	Bilateral, Retina	Atrophy	Mild
Kidney	Cortex	Cyst	
Liver		Eosinophilic Focus	Multiple
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
Rete Testes		Dilatation	Marked
Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 778	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300778
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes [Degeneration TGLS = 1-7]	Seminif Tub	Pigmentation Degeneration	Mild Marked
Thymus Thyroid Gland		Atrophy Cyst	Marked Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 779	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300779
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Epididymis		Hypospermia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung		Metaplasia	Osseous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Mild
[Degeneration TGLS = 2-13]			
Thymus		Atrophy	Marked
Urin Bladder			
Note: PATHOLOGIST NOTED: PLUG OF COAGULATED SEMINAL FLUID			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 781	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 702 HISTO: 21320300781
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric
Nose	Pancreas	Preputial Gland	Rete Testes
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder		
INSUFFICIENT TISSUE			
Bone, Femur	Mammary Gland		
OBSERVATIONS			
Adrenal Cortex		Angiectasis	Mild
Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 2-3]			
Bone Marrow		Hypocellularity	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Mild
[Mixed Cell Focus TGLS = 5-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 781	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 702 HISTO: 21320300781
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Degeneration	Moderate
		Inflammation	Suppurative, Minimal
Seminal Vesicle		Atrophy	Minimal
[Atrophy TGLS = 4-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 8,9-5.1+5.2]			
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-7]			
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 783	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300783
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Brain			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Coagulating Gland		Developmental Malformation	
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 783	TRT#: 11	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300783
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 784	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300784
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-9.1]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Depletion Lymphoid	Mild
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 784	TRT#: 10	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300784

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 785

TRT#: 13

SEX: Male

DAY ON TEST: 749

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 5-3]			
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 4-6.1]			
Epididymis		Degeneration	Minimal
		Hypospermia	Marked
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
		Infiltration Cellular	Lymphocyte, Minimal
[Cyst TGLS = 6-2]			
Liver		Eosinophilic Focus	
Lymph Node	Pancreatic	Hemorrhage	Minimal
	Pancreatic	Pigmentation	Minimal
[Hemorrhage TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 785	TRT#: 13	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300785
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Degeneration	Mild
		Inflammation	Suppurative, Mild
Rete Testes		Fibrosis	Mild
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 786	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300786
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-9]			
Kidney	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Moderate
		Seminoma Benign	
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 786	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300786
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 787	TRT#: 14	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 788	TRT#: 11	SEX: Male	DAY ON TEST: 748
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Angiectasis	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
Eye	Bilateral, Retina	Atrophy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
[Basophilic Focus TGLS = 5-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 4-3]			
Preputial Gland		Inflammation	Suppurative, Marked
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 788	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300788
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 789

TRT#: 11

SEX: Male

DAY ON TEST: 748

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node, Mandibular

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Capsule	Fibrosis	Minimal
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Mild
[Fibrosis TGLS = 3-5]			
[Hemorrhage TGLS = 3-5]			
[Hyperplasia TGLS = 3-5]			
Lym Node Mand			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 789	TRT#: 11	SEX: Male	DAY ON TEST: 748
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300789
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 5-13]		Inflammation	Granulomatous, Minimal
[Infiltration Cellular TGLS = 5-13]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Suppurative, Marked
Skin		Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 05 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 790

TRT#: 11

SEX: Male

DAY ON TEST: 748

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Cerebellum	Coagulating Gland	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow		Hypocellularity	Mild
Brain	Brain Stem	Compression	Mild
	Cerebrum	Hydrocephalus	Mild
[Compression TGLS = 10-8]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 8-13.2]			
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Chronic, Minimal
Note: TGL # 12 - NO MICROSCOPIC CORRELATE			
Liver		Angiectasis	Mild
[Angiectasis TGLS = 4,5-5]			
Lung		Metaplasia	Osseous, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
Note: TGL # 08 - NOTED GROSSLY AS LYMPH NODE, PANCREATIC WAS ISLETS PANCREAS			
[Degeneration TGLS = 7-13]			
[Infiltration Cellular TGLS = 7-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
		Infiltration Cellular	Plasma Cell, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 790	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300790
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 6-13.1]			
[Infiltration Cellular TGLS = 6-13.1]			
Mammary Gland	Duct	Dilatation	Marked
[Dilatation TGLS = 3,11-5.4+5.3]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Preputial Gland	Parenchym Cell	Degeneration Inflammation	Mild Suppurative, Marked
[Degeneration TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Prostate, Ventral Lobe		Hyperplasia	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 06 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 791	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300791
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
	Popliteal	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 1-13]			
[Infiltration Cellular TGLS = 3-13.2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
[Degeneration TGLS = 7-13.1]			
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Foreign Body	
		Inflammation	Pyogranulomat, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:53

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 791	TRT#: 11	SEX: Male	DAY ON TEST: 748
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300791
ORGAN AND ACCOUNTABLE SITE STATUS			
[Foreign Body TGLS = 5-5.3]		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-5.2]			
[Inflammation TGLS = 5-5.3]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 07 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 792	TRT#: 9	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

MISSING

Thymus

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 792	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300792
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:53
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 793

TRT#: 9

SEX: Male

DAY ON TEST: 749

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mandibular	Mammary Gland	Nose	Pancreas
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13.1]			
Liver			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lung	Artery	Mineralization	Minimal
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-13]			
[Hyperplasia TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 793	TRT#: 9	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300793
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 02 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 794	TRT#: 10	SEX: Male	DAY ON TEST: 748
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Coagulating Gland	Epididymis	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Liver
Lymph Node, Mesenteric	Mammary Gland	Nose	Pituitary Gland
Rete Testes	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Brain	Cerebrum	Granular Cell Tumor Benign	
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Metaplasia	Osseous, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
		Mineralization	Mild
		Nephropathy	Chronic, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Mild
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Inguinal	Infiltration Cellular	Plasma Cell, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 2,5-13.1+13.2]			
[Hyperplasia TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 794

TRT#: 10

SEX: Male

DAY ON TEST: 748

DOSE: F1 100PPM

DISP: Terminal Sacrifice

HISTO: 21320300794

ORGAN AND ACCOUNTABLE SITE STATUS

[Infiltration Cellular TGLS = 2,5-13.1+13.2]

Lymph Node, Mandibular

Degeneration

Cystic, Moderate

Hyperplasia

Lymphoid, Moderate

Infiltration Cellular

Plasma Cell, Moderate

[Degeneration TGLS = 3-12]

[Hyperplasia TGLS = 3-12]

[Infiltration Cellular TGLS = 3-12]

Mammary Gland

Note: TGL # 02 & 05 - NOTED GROSSLY AS MAMMARY GLAND WERE LYMPH NODE, INGUINAL

Pancreas

Acinar Cell

Degeneration

Minimal

Parathyroid Gland

Hyperplasia

Mild

Preputial Gland

Infiltration Cellular

Lymphocyte, Minimal

Prostate, Dorsal Lobe

Inflammation

Suppurative, Minimal

Prostate, Ventral Lobe

Inflammation

Suppurative, Mild

Seminal Vesicle

Atrophy

Mild

[Atrophy TGLS = 6-6.1]

Skin

Inflammation

Suppurative, Marked

[Inflammation TGLS = 1-5]

Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 795

TRT#: 10

SEX: Male

DAY ON TEST: 748

DOSE: F1 100PPM

DISP: Terminal Sacrifice

HISTO: 21320300795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
Coagulating Gland		Dilatation	Moderate
Epididymis		Degeneration	Mild
		Hypospermia	Marked
		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	Popliteal	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Mild
	Pancreatic	Infiltration Cellular	Plasma Cell, Moderate
	Popliteal	Infiltration Cellular	Plasma Cell, Mild
	Renal	Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 2-13]			
[Hyperplasia TGLS = 5-13.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 795	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300795
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 3-13.1] [Infiltration Cellular TGLS = 5-13.2] [Infiltration Cellular TGLS = 3-13.1] [Infiltration Cellular TGLS = 2-13] Lymph Node, Mandibular Pituitary Gland Preputial Gland	Pars Distalis Parenchym Cell Duct	Infiltration Cellular Hyperplasia Degeneration Dilatation Inflammation	Plasma Cell, Mild Minimal Mild Marked Suppurative, Minimal
[Degeneration TGLS = 1-6.2] [Dilatation TGLS = 1-6.2] [Inflammation TGLS = 1-6.2] Prostate, Dorsal Lobe Prostate, Ventral Lobe Rete Testes		Infiltration Cellular Infiltration Cellular Fibrosis Spermatocoele Inflammation	Lymphocyte, Minimal Lymphocyte, Minimal Moderate Marked Suppurative, Marked
Skin [Inflammation TGLS = 6-5] Testes Thymus	Seminif Tub	Degeneration Atrophy	Marked Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 796	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300796
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node	Lymph Node, Mandibular
Nose	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
MISSING			
Parathyroid Gland	Thymus		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla	Bilateral	Hyperplasia	Marked
		Pheochromocytoma Benign	
Eye	Retina	Atrophy	Minimal
Harderian Gland		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
[Clear Cell Focus TGLS = 5-5]			
Lymph Node			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE (LYMPH NODE, HEMAL)			
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas		Basophilic Focus	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 796	TRT#: 8	SEX: Male	DAY ON TEST: 749
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300796
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Sarcoma	
[Sarcoma TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus			
Note: PATHOLOGIST NOTED: RECUR ATTEMPTED			
Note: TGL # 03 - NOTED GROSSLY AS THYMUS WAS LYMPH NODE, HEMAL			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 797

TRT#: 13

SEX: Male

DAY ON TEST: 748

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Vacuolization Cytoplasmic	Cystic, Minimal Minimal Mild
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Inguinal	Hyperplasia	Lymphoid, Moderate
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Inguinal	Infiltration Cellular	Plasma Cell, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 4-5.2]			
[Infiltration Cellular TGLS = 4-5.2]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia Infiltration Cellular	Lymphoid, Mild Plasma Cell, Moderate

Mammary Gland

Note: TGL # 04 - NOTED GROSSLY AS MAMMARY GLAND WAS LYMPH NODE, INGUINAL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 797	TRT#: 13	SEX: Male	DAY ON TEST: 748
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300797
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 798	TRT#: 12	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lymph Node, Mesenteric
Mammary Gland	Nose	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
[Hyperplasia TGLS = 4-3]			
[Vacuolization Cytoplasmic TGLS = 4-3]			
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 3-13]			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland	Bilateral	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Suppurative, Marked
Skin		Inflammation	Suppurative, Marked
		Lipoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 798	TRT#: 12	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300798
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 2-5]			
[Lipoma TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 799	TRT#: 12	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Lymph Node, Mandibular	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 799	TRT#: 12	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300799

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 800	TRT#: 14	SEX: Male	DAY ON TEST: 748
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Kidney	Pelvis	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
[Degeneration TGLS = 1-13.1]			
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Prostate, Dorsal Lobe		Cyst	
		Inflammation	Suppurative, Marked
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 3-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL # 01 - Noted grossly as Mesentery was Lymph Node, Mesenteric

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 800	TRT#: 14	SEX: Male	DAY ON TEST: 748
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300800

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 801	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300801
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Pancreas	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Eye	Retina	Atrophy	Mild
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
Mammary Gland		Degeneration	Moderate
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland		Atrophy	Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Atrophy TGLS = 2-6.2]			
[Infiltration Cellular TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 801	TRT#: 14	SEX: Male	DAY ON TEST: 748
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300801

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 802

TRT#: 14

SEX: Male

DAY ON TEST: 748

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Complex	
Coagulating Gland		Degeneration	Moderate
		Inflammation	Suppurative, Marked
Heart		Cardiomyopathy	Minimal
Intestine Small, Duodenum		Sarcoma	
[Sarcoma TGLS = 4-9]			
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Mild
		Eosinophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Angiectasis TGLS = 3-5]			
[Hepatodiaphragmatic Nodule TGLS = 2-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 802	TRT#: 14	SEX: Male	DAY ON TEST: 748
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300802
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 803	TRT#: 8	SEX: Male	DAY ON TEST: 748
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Eye	Retina	Atrophy	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
Intestine Large, Colon		Hyperplasia	Lymphoid, Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Hyperplasia	Tubular, Minimal
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Minimal
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 804

TRT#: 12

SEX: Male

DAY ON TEST: 748

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 2-6.1]			
Eye	Bilateral, Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Polycystic Kidney	Moderate
[Polycystic Kidney TGLS = 4-2]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
Note: TGL # 01 - NO MICROSCOPIC CORRELATE (LYMPH NODE, HEMAL)			
Note: TGL # 01 - NOTED GROSSLY AS LYMPH NODE WAS LYMPH NODE, HEMAL			
[Degeneration TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Salivary Glands		Hyperplasia	Lymphoid, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 804	TRT#: 12	SEX: Male	DAY ON TEST: 748
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300804
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 6-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 05 - No section taken (Tissue NOS)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 823	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300823
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lymph Node, Mandibular	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 5-6.1]			
Epididymis		Degeneration	Mild
		Hypospermia	Mild
		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 3-2]			
Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Seminal Vesicle		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 823	TRT#: 10	SEX: Male	DAY ON TEST: 750
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300823
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2,4-7+13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 824

TRT#: 14

SEX: Male

DAY ON TEST: 749

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 4-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 2-10+10.1]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Minimal
Seminal Vesicle		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 824	TRT#: 14	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300824
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 825

TRT#: 13

SEX: Male

DAY ON TEST: 750

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Coagulat GI			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 825	TRT#: 13	SEX: Male	DAY ON TEST: 750
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300825
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 842	TRT#: 10	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Eye	Retina	Atrophy	Mild
Heart		Cardiomyopathy	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 6-13.1]			
[Infiltration Cellular TGLS = 6-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Preputial Gland	Parenchym Cell	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 842	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300842
ORGAN AND ACCOUNTABLE SITE STATUS			
	Duct	Dilatation Inflammation	Marked Suppurative, Marked
[Degeneration TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Abscess	Marked
		Inflammation	Suppurative, Marked
[Abscess TGLS = 5-5.2]			
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 04 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 843	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300843
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Mild
[Angiectasis TGLS = 3-3]			
[Vacuolization Cytoplasmic TGLS = 3-3]			
Adrenal Medulla		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Capsule	Fatty Change	
[Fatty Change TGLS = 4-2]			
Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 5-5]		Vacuolization Cytoplasmic	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 843	TRT#: 10	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300843
ORGAN AND ACCOUNTABLE SITE STATUS			
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1-6.2]			
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 6-5.2]			
Spleen	Red Pulp	Hyperplasia	Marked
[Hyperplasia TGLS = 2-5]			
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 844	TRT#: 10	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla	Bilateral	Hyperplasia	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland			
Note: TGL # 02 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Seminal Vesicle		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 844	TRT#: 10	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300844
ORGAN AND ACCOUNTABLE SITE STATUS			
[Dilatation TGLS = 3-6.1]			
Skin		Angiectasis	Mild
		Cyst Epithelial Inclusion	
		Inflammation	Chronic Active, Minimal
[Angiectasis TGLS = 1-5]			
[Cyst Epithelial Inclusion TGLS = 2-5.2]			
[Inflammation TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 845	TRT#: 10	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-12]			
Liver		Basophilic Focus	
		Cyst	
		Vacuolization Cytoplasmic	Minimal
[Cyst TGLS = 4-5]			
Lung	Alveolar Epith	Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 845	TRT#: 10	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300845
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Moderate
Spleen		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 846

TRT#: 9

SEX: Male

DAY ON TEST: 749

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
Kidney	Cortex	Cyst	
[Cyst TGLS = 2-2]		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	Multiple
	Pars Intermed	Cyst	Multiple
[Cyst TGLS = 3-3]			
[Cyst TGLS = 3-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 846	TRT#: 9	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300846
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 847

TRT#: 11

SEX: Male

DAY ON TEST: 749

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Pheochromocytoma Benign	
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 2-6.1]			
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			
Pancreas	Acinar Cell	Degeneration	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Fibroma	
[Fibroma TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 847	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300847
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 848	TRT#: 11	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node, Mandibular	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Inflammation	Chronic, Minimal
Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
	Acinar Cell	Hyperplasia	Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 849

TRT#: 11

SEX: Male

DAY ON TEST: 749

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Epididymis		Degeneration	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 4-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Hyperplasia	Minimal
Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 2-6.1]			
Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
[Hyperkeratosis TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 849	TRT#: 11	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300849
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
Urinary Bladder		Hemorrhage	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 850	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300850
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 851	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300851
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Hyperplasia Hypertrophy Vacuolization Cytoplasmic Developmental Malformation	Mild Minimal Mild
Coagulating Gland [Developmental Malformation TGLS = 5-6.1]			
Eye	Bilateral, Retina	Atrophy	Mild
Kidney	Cortex	Cyst Nephropathy	Chronic, Mild
[Cyst TGLS = 6-2]			
Lacrimal Gland [Ectopic Harderian TGLS = 2-13]		Ectopic Harderian	
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular [Infiltration Cellular TGLS = 3-12]		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell Duct	Degeneration Dilatation	Moderate Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 851	TRT#: 9	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300851
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 1-6.2]		Inflammation	Suppurative, Marked
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Seminal Vesicle		Atrophy	Minimal
[Atrophy TGLS = 4-6.1]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 852	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300852
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Hyperplasia	Mild
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 4-6.1]			
Skin		Inflammation	Chronic, Mild
		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
[Inflammation TGLS = 2-5.3]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 852	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300852
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 853	TRT#: 14	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3-3]			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Cyst	
		Inflammation	Suppurative, Moderate
Sem Ves			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 853	TRT#: 14	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300853
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
[Inflammation TGLS = 1-5.2]			
[Necrosis TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 854	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300854
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mesenteric	Nose	Pancreas	Parathyroid Gland
Prostate, Dorsal Lobe	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

MISSING

Thymus

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Cyst	
		Pheochromocytoma Complex	
[Cyst TGLS = 5-3]			
[Pheochromocytoma Complex TGLS = 5-3]			
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Coagulating Gland		Hyperplasia	Mild
Epididymis			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 6-13]			
[Infiltration Cellular TGLS = 6-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 854	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300854
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular		Degeneration Infiltration Cellular	Cystic, Moderate Plasma Cell, Moderate
[Degeneration TGLS = 2-12] [Infiltration Cellular TGLS = 2-12]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
Rete Testes		Fibrosis	Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-7]			
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 855	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300855
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow		Hypocellularity	Mild
Eye	Bilateral, Retina	Atrophy	Moderate
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGSL = 4-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lung		Cyst	
		Infiltration Cellular	Histiocyte, Minimal
[Cyst TGSL = 2-10.1]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGSL = 1-12]			
[Infiltration Cellular TGSL = 1-12]			
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGSL = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 855	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300855
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ORGAN AND ACCOUNTABLE SITE STATUS

Prostate, Dorsal Lobe	Inflammation	Suppurative, Mild
Prostate, Ventral Lobe	Hyperplasia	Mild
Spleen	Pigmentation	Mild
Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 856	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300856
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4,5-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
Lymph Node	Renal	Degeneration	Cystic, Moderate
	Renal	Hyperplasia	Lymphoid, Marked
	Renal	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
[Hyperplasia TGLS = 6-13.1]			
Mammary Gland		Degeneration	Marked
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 856	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300856
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 7-3] [Cyst TGLS = 7-3]	Pars Distalis Pars Distalis	Adenoma Cyst	Multiple
Preputial Gland [Dilatation TGLS = 2-6.2] [Inflammation TGLS = 2-6.2]	Duct	Dilatation Inflammation	Mild Suppurative, Marked
Prostate, Dorsal Lobe Prostate, Ventral Lobe Skin [Inflammation TGLS = 1-5]		Inflammation Infiltration Cellular Inflammation	Suppurative, Moderate Lymphocyte, Minimal Suppurative, Marked
Testes Thymus Thyroid Gland	Seminif Tub Follicular Cel	Degeneration Atrophy Cyst	Mild Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 06 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 857

TRT#: 13

SEX: Male

DAY ON TEST: 749

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mandibular	Parathyroid Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Kidney		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 2-13]			
[Hyperplasia TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	Multiple
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 857	TRT#: 13	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300857
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 4-6]			
[Inflammation TGLS = 4-6]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 858	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300858
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Benign	
Coagulating Gland		Atrophy	Mild
[Atrophy TGLS = 2-6.1]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Mild
	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Seminal Vesicle		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 858	TRT#: 14	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300858
ORGAN AND ACCOUNTABLE SITE STATUS			
[Atrophy TGLS = 1-6.1]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 859

TRT#: 14

SEX: Male

DAY ON TEST: 749

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Liver
Mammary Gland	Nose	Pancreas	Pituitary Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 1-2]			
Lung		Metaplasia	Osseous, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
Parathyroid Gland		Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-5.2]			
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 860	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300860
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 6-2]			
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
Lymph Node			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE (LYMPH NODE, HEMAL)			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 3-12]			
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 5-3]			
Preputial Gland		Inflammation	Suppurative, Marked
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-6.2+6.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 860	TRT#: 12	SEX: Male	DAY ON TEST: 749
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300860
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Mild
[Hyperkeratosis TGLS = 1-5]			
[Hyperplasia TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus			
Note: TGL # 04 - NOTED GROSSLY AS THYMUS WAS LYMPH NODE, HEMAL			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 864	TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300864
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Coagulating Gland	Epididymis	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Rete Testes	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Brain	Brain Stem	Astrocytoma Malignant	
	Cerebrum	Astrocytoma Malignant	
[Astrocytoma Malignant TGLS = 5-8]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Renal Tubule	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 1-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 864	TRT#: 14	SEX: Male	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300864
ORGAN AND ACCOUNTABLE SITE STATUS			
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 6-6.1]			
Skin		Fibroma	
		Inflammation	Suppurative, Marked
[Fibroma TGLS = 3-5.3]			
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 865	TRT#: 14	SEX: Male	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Rete Testes
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Marked Marked
[Degeneration TGLS = 5-3] [Hypertrophy TGLS = 5-3]			
Bone Marrow		Hypocellularity	Moderate
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Renal	Degeneration	Cystic, Marked
	Renal	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 3-13] [Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 865		TRT#: 14 DOSE: F1 500PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300865
ORGAN AND ACCOUNTABLE SITE STATUS				
Preputial Gland			Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe			Inflammation	Suppurative, Mild
Prostate, Ventral Lobe			Degeneration	Moderate
			Inflammation	Suppurative, Minimal
Seminal Vesicle			Atrophy	Mild
[Atrophy TGLS = 2-6.1]				
Skin			Hyperkeratosis	Marked
			Inflammation	Suppurative, Marked
[Hyperkeratosis TGLS = 7-5.3]				
[Inflammation TGLS = 1-5.2]				
Spleen			Hematopoietic Cell Proliferation	Mild
			Pigmentation	Minimal
Testes	Seminif Tub		Degeneration	Minimal
Thymus			Atrophy	Marked
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 877	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300877
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Liver	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Lung	Pleura	Fibrosis	Minimal
	Pleura	Hyperplasia	Minimal
	Pleura	Inflammation	Chronic, Minimal
[Fibrosis TGLS = 2-10]			
[Hyperplasia TGLS = 2-10]			
[Inflammation TGLS = 2-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Degeneration	Marked
Pituitary Gland	Pars Distalis	Cyst	Multiple
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 878	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300878
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Moderate
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 1,4-2]			
Liver		Eosinophilic Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 2-9.1]			
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 3-5]			
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 879	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300879
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Mammary Gland	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Coagulating Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Liver		Cyst	
		Eosinophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
[Cyst TGLS = 2-5]			
[Eosinophilic Focus TGLS = 2-5]			
[Hyperplasia TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Nose		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 879	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300879
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Moderate
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 880	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300880
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Eye	Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Moderate
[Degeneration TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Degeneration	Marked
		Inflammation	Suppurative, Moderate
[Degeneration TGLS = 2-6]			
[Inflammation TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 880	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300880
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 881	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300881
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Nose	Parathyroid Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
Kidney			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Liver		Basophilic Focus	
	Biliar Tract	Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 4-12]			
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Seminal Vesicle		Dilatation	Mild
Skin		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 881	TRT#: 9	SEX: Male	DAY ON TEST: 750
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300881
ORGAN AND ACCOUNTABLE SITE STATUS			
		Inflammation	Suppurative, Moderate
		Keratoacanthoma	
[Cyst TGLS = 3-5.2]			
[Inflammation TGLS = 1-5.4]			
[Keratoacanthoma TGLS = 2-5.3]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 882	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300882
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
	Myeloid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Liver		Clear Cell Focus	
	Biliar Tract	Fibrosis	Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
Mammary Gland		Degeneration	Moderate
		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.3]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 3-6.2]			
Skin		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 882	TRT#: 9	SEX: Male	DAY ON TEST: 750
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300882
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 883	TRT#: 11	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Eye	Bilateral, Retina	Atrophy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1-6.2]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 883	TRT#: 11	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300883
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
[Inflammation TGLS = 2-6]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 884	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300884
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mesenteric
Nose	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Medulla		Hyperplasia	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Minimal
[Nephropathy TGLS = 1-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Marked
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 884	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300884
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 885	TRT#: 10	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 885	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300885
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hyperplasia	Moderate
Stomach, Forestomach [Hyperplasia TGLS = 4-9]	Epithelium	Pigmentation	Mild
		Hyperplasia	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 886	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300886
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Rete Testes	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Mild
		Basophilic Focus	
	Capsule	Fibrosis	Mild
	Bile Duct	Hyperplasia	Minimal
	Capsule	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Mild
[Fibrosis TGLS = 4-5]			
[Inflammation TGLS = 4-5]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
	Mediastinal	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 5-13]			
[Infiltration Cellular TGLS = 6-13.1]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 886	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300886
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Marked
[Inflammation TGLS = 7-9.1]			
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
Seminal Vesicle		Fibrosis	Mild
		Inflammation	Chronic, Minimal
[Fibrosis TGLS = 3-6.1]			
[Inflammation TGLS = 3-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 887

TRT#: 13

SEX: Male

DAY ON TEST: 750

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Pancreas	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adren Medulla			
Note: TGL # 03 - NOTED GROSSLY AS ADRENAL GLAND WAS LYMPH NODE, RENAL			
Adrenal Cortex		Accessory Adrenal Cortical Nodule	
Note: TGL # 03 - NOTED GROSSLY AS ADRENAL GLAND WAS LYMPH NODE, RENAL			
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
	Myeloid Cell	Hyperplasia	Mild
Eye	Bilateral, Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 7-2]			
Liver		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
[Metaplasia TGLS = 6-10]			
Lymph Node	Renal	Degeneration	Cystic, Marked
	Renal	Fibrosis	Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
	Renal	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-3]			
[Fibrosis TGLS = 3-3]			
[Infiltration Cellular TGLS = 3-3]			
[Infiltration Cellular TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 887		TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300887
ORGAN AND ACCOUNTABLE SITE STATUS				
Lymph Node, Mandibular [Infiltration Cellular TGLS = 2-12]		Infiltration Cellular		Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation		Granulomatous, Minimal
Mammary Gland		Lactation		Mild
Parathyroid Gland		Hyperplasia		Minimal
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma		
Preputial Gland		Infiltration Cellular		Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation		Suppurative, Moderate
Prostate, Ventral Lobe		Inflammation		Suppurative, Mild
Skin [Inflammation TGLS = 1-5]		Inflammation		Suppurative, Marked
Spleen		Hematopoietic Cell Proliferation		Mild
Thymus		Atrophy		Marked
PRIMARY CAUSE OF DEATH	-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 888	TRT#: 14	SEX: Male	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Chronic Active, Moderate
Pros, Ven Lobe			
Note: TGL # 01 - No Microscopic Correlate			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-6]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 888	TRT#: 14	SEX: Male	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300888

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 889	TRT#: 14	SEX: Male	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Parathyroid Gland
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
Int Sm Duoden			
Note: TGL # 05 - NOTED GROSSLY AS INTESTINE SMALL, DUODENUM WAS PANCREAS			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Minimal
		Inflammation	Chronic Active, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
		Polyarteritis	Marked
[Polyarteritis TGLS = 5-9]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 3-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 889	TRT#: 14	SEX: Male	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300889
ORGAN AND ACCOUNTABLE SITE STATUS			
Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 1-6.1]			
Spleen		Pigmentation	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 890	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300890
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
INSUFFICIENT TISSUE			
Mammary Gland			
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
Kidney		Inflammation	Chronic Active, Marked
		Nephropathy	Chronic, Mild
[Inflammation TGLS = 2-2]			
Liver		Inflammation	Chronic Active, Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 891	TRT#: 13	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Metaplasia	Osseous, Moderate
		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
[Degeneration TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 891	TRT#: 13	SEX: Male	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300891
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Hemorrhage	Mild
		Inflammation	Suppurative, Marked
		Necrosis	Mild
	[Hemorrhage TGLS = 1-5]		
	[Inflammation TGLS = 1-5]		
	[Necrosis TGLS = 1-5]		
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 892	TRT#: 12	SEX: Male	DAY ON TEST: 750
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Liver		Clear Cell Focus	Multiple
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Marked
	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 3,4-6.2]			
[Dilatation TGLS = 3,4-6.2]			
[Inflammation TGLS = 3,4-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Fibroma	
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 892	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300892
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroma TGLS = 2-5.2]			
[Hyperkeratosis TGLS = 1-5]			
[Hyperplasia TGLS = 1-5]			
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 893	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300893
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mandibular
Nose	Parathyroid Gland	Prostate, Dorsal Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Moderate
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Prostate, Ventral Lobe		Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
Skin			
Note: TGL # 03 - NO SECTION TAKEN			
Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 893	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300893
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 894	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300894
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 2-6.1]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Popliteal	Hyperplasia	Lymphoid, Mild
	Popliteal	Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-5]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 894	TRT#: 12	SEX: Male	DAY ON TEST: 750
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300894
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 1-13.1]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 895

TRT#: 12

SEX: Male

DAY ON TEST: 750

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
Eye	Retina	Atrophy	Mild
Heart		Metaplasia	Osseous, Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Lung		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland		Inflammation	Suppurative, Moderate
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 896	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300896
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node, Mesenteric	Nose	Pancreas
Parathyroid Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2,3-2]			
Liver		Angiectasis	Mild
		Basophilic Focus	Multiple
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Pigmentation	Minimal
[Angiectasis TGLS = 4-5]			
[Basophilic Focus TGLS = 4-5]			
[Degeneration TGLS = 4-5]			
[Hyperplasia TGLS = 4-5]			
[Pigmentation TGLS = 4-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 896	TRT#: 9	SEX: Male	DAY ON TEST: 752
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300896
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Cyst	
	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Stomach, Forestomach		Hyperplasia	Mild
[Hyperplasia TGLS = 5-9]			
Testes	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 897	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300897
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Pancreas	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
		Inflammation	Chronic, Minimal
[Cyst TGLS = 1-2]			
[Fatty Change TGLS = 3-2]			
[Inflammation TGLS = 3-2]			
Liver		Angiectasis	Mild
[Angiectasis TGLS = 4-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
Nose		Inflammation	Suppurative, Minimal
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 897	TRT#: 9	SEX: Male	DAY ON TEST: 752
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300897

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal
Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 898	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300898
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Trachea	Urinary Bladder

MISSING

Thymus			
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OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 2-3]			
Eye	Bilateral, Retina	Atrophy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
[Fibrosis TGLS = 6-5]			
[Hyperplasia TGLS = 6-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Degeneration	Moderate
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 898	TRT#: 11	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300898
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Lipoma	
[Lipoma TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 5-3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 899	TRT#: 11	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Nose	Pancreas	Parathyroid Gland
Rete Testes	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Eye	Bilateral, Retina	Atrophy	Minimal
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 3-3]			
Preputial Gland		Abscess	Marked
[Abscess TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 899	TRT#: 11 DOSE: F1 500PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300899
ORGAN AND ACCOUNTABLE SITE STATUS			
Salivary Glands Sem Ves Note: TGL # 04 - NO MICROSCOPIC CORRELATE	Acinar Cell	Hyperplasia	Mild
Spleen Thymus		Pigmentation Atrophy	Mild Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 04 - Noted grossly as Tissue NOS was Seminal Vesicle			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 900	TRT#: 10	SEX: Male	DAY ON TEST: 747
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Mammary Gland	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
	Myeloid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver		Degeneration	Cystic, Mild
[Degeneration TGLS = 7-5]			
Lung			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 900	TRT#: 10	SEX: Male	DAY ON TEST: 747
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300900
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-6]		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild
[Infiltration Cellular TGLS = 1-6]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 901	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300901
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Small, Ileum		Adenocarcinoma	
[Adenocarcinoma TGLS = 2-9.1]			
Kidney		Nephropathy	Chronic, Mild
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 1-12]			
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 901	TRT#: 13	SEX: Male	DAY ON TEST: 752
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300901

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH -

Animal Note: TGL # 02 - Noted grossly as Intestine Large was Int. Small Ileum

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 902	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300902
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Parathyroid Gland	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
		Pigmentation	Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 902	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300902
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 903

TRT#: 12

SEX: Male

DAY ON TEST: 752

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Benign	
Brain			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE (CEREBELLUM)			
Eye	Bilateral, Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Congestion	Moderate
		Nephropathy	Chronic, Mild
[Congestion TGLS = 2-2]			
[Nephropathy TGLS = 2-2]			
Liver		Inflammation	Chronic Active, Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 3-3]			
[Cyst TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 903	TRT#: 12	SEX: Male	DAY ON TEST: 752
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300903
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 904

TRT#: 14

SEX: Male

DAY ON TEST: 749

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mesenteric	Nose	Pancreas	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 2-2]			
Liver		Angiectasis	Mild
		Infiltration Cellular	Lymphocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
[Angiectasis TGLS = 4-5]			
[Infiltration Cellular TGLS = 4-5]			
[Inflammation TGLS = 4-5]			
[Necrosis TGLS = 4-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 3-3]			
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 904	TRT#: 14	SEX: Male	DAY ON TEST: 749
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300904
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
Testes		Polyarteritis	Mild
Thymus		Atrophy	Marked
Thyroid Gland	Follicular Cel	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 905	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300905
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Liver
Lymph Node, Mesenteric	Nose	Pituitary Gland	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
AUTO PRECLUDES DIAG.			
Rete Testes			
OBSERVATIONS			
Coagulat GI			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 906	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 747 HISTO: 21320300906
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Adenoma	
		Vacuolization Cytoplasmic	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Mild
[Angiectasis TGLS = 2,3-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
	Inguinal	Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 5-13]			
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland			
Note: TGL # 05 - NOTED GROSSLY AS MAMMARY GLAND WAS LYMPH NODE, INGUINAL			
Pancreas		Accessory Spleen	
	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Abscess	Marked
	Parenchym Cell	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 906	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 747 HISTO: 21320300906
ORGAN AND ACCOUNTABLE SITE STATUS			
[Abscess TGLS = 4-6.2] [Degeneration TGLS = 4-6.2] [Dilatation TGLS = 4-6.2] Prostate, Dorsal Lobe Skin	Duct	Dilatation	Moderate
[Inflammation TGLS = 1-5.2] [Necrosis TGLS = 1-5.2] Testes Thymus	Seminif Tub	Inflammation Inflammation Necrosis Degeneration Atrophy	Suppurative, Mild Suppurative, Marked Mild Minimal Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 920	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300920
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lymph Node, Mandibular	Nose	Pancreas
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
		Nephropathy	Chronic, Minimal
[Fatty Change TGLS = 7-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13.1]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 920	TRT#: 12	SEX: Male	DAY ON TEST: 752
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300920
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 5-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 921

TRT#: 13

SEX: Male

DAY ON TEST: 752

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Mammary Gland	Nose
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Marked
Adrenal Medulla		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Lacrimal Gland		Degeneration	Marked
		Ectopic Harderian	
		Infiltration Cellular	Lymphocyte, Mild
[Degeneration TGLS = 1-13]			
[Ectopic Harderian TGLS = 1-13]			
[Infiltration Cellular TGLS = 1-13]			
Liver			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
	Pancreatic	Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 921	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300921
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE (LYMPH NODE, RENAL)			
[Hyperplasia TGLS = 3-13.2]			
[Infiltration Cellular TGLS = 3-13.2]			
[Infiltration Cellular TGLS = 2-13.1]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Marked
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 6-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland		Vacuolization Cytoplasmic	Moderate
Urethra		Congestion	Mild
[Congestion TGLS = 7-13.4]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 922	TRT#: 13	SEX: Male	DAY ON TEST: 752
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 3-13]			
Liver	Biliar Tract	Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 922	TRT#: 13 DOSE: F1 100PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300922
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Pigmentation	Minimal
Thyroid Gland		Atrophy	Marked
		Vacuolization Cytoplasmic	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 923	TRT#: 12 DOSE: F1 5PPM/CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300923
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
	Pelvis	Mineralization	Mild
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Minimal
Sem Ves			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 923	TRT#: 12	SEX: Male	DAY ON TEST: 752
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300923
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-5]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 924	TRT#: 14	SEX: Male	DAY ON TEST: 753
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Vacuolization Cytoplasmic	Mild
Epididymis		Degeneration	Mild
		Hypospermia	Marked
[Degeneration TGLS = 6-6.2]			
[Hypospermia TGLS = 6-6.2]			
Harderian Gland		Degeneration	Minimal
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Chronic, Mild
Note: TGL # 05 & 08 - NO MICROSCOPIC CORRELATE			
Liver		Angiectasis	Mild
		Hemorrhage	Mild
[Angiectasis TGLS = 3-5]			
[Hemorrhage TGLS = 3-5]			
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 7-10]			
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 924	TRT#: 14	SEX: Male	DAY ON TEST: 753
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300924
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4-3]			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin	Dermis	Fibrosis	Marked
[Fibrosis TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 925	TRT#: 14	SEX: Male	DAY ON TEST: 752
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Nose	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Capsule	Fatty Change	
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Mild
		Hyperplasia	Mast Cell, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 925	TRT#: 14	SEX: Male	DAY ON TEST: 752
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300925

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 926	TRT#: 9 DOSE: F1 5PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320300926
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Liver
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung	Artery	Mineralization	Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 929	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300929
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Pancreas	Pituitary Gland	Prostate, Ventral Lobe	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
MISSING			
Lymph Node, Mandibular	Thymus		
OBSERVATIONS			
Adrenal Cortex		Atrophy	Marked
	Capsule	Fibrosis	Mild
		Vacuolization Cytoplasmic	Minimal
[Atrophy TGLS = 3-3]			
[Fibrosis TGLS = 3-3]			
[Vacuolization Cytoplasmic TGLS = 3-3]			
Adrenal Medulla		Hyperplasia	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Lung		Infiltration Cellular	Lymphocyte, Minimal
		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 1-13]			
[Infiltration Cellular TGLS = 1-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 929	TRT#: 10 DOSE: F1 100PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300929
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Mild
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Minimal
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
	[Inflammation TGLS = 5-5.2]		
	[Necrosis TGLS = 5-5.2]		
Spleen		Hyperplasia	Lymphoid, Minimal
Testes	Seminif Tub	Degeneration	Moderate
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 04 - No Section taken (Mesentery)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 930	TRT#: 8 DOSE: F1 0PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320300930
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
OBSERVATIONS			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 7-8]			
Coagulating Gland		Atrophy	Marked
Epididymis		Atrophy	Marked
		Hypospermia	Marked
[Atrophy TGLS = 3-6.2]			
[Hypospermia TGLS = 3-6.2]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 5-2]			
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 4-12]			
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Moderate
[Dilatation TGLS = 1-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 930	TRT#: 8	SEX: Male	DAY ON TEST: 753
	DOSE: F1 0PPM	DISP: Terminal Sacrifice	HISTO: 21320300930
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
		Inflammation	Suppurative, Moderate
Rete Testes		Dilatation	Minimal
Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 6-6.1]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-13]			
Thymus		Hyperplasia	Lymphoid, Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 933	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 713 HISTO: 21320300933
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Mammary Gland
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 9-3]			
Coagulating Gland		Atrophy	Mild
[Atrophy TGLS = 4-6.1]			
Eye		Inflammation	Suppurative, Marked
	Adventitia	Squamous Cell Carcinoma	
[Inflammation TGLS = 13-11.1]			
[Squamous Cell Carcinoma TGLS = 13-11.1]			
Harderian Gland		Inflammation	Suppurative, Marked
	Adventitia	Squamous Cell Carcinoma	
[Inflammation TGLS = 10-11.1]			
[Squamous Cell Carcinoma TGLS = 10-11.1]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 7,8-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Metaplasia	Osseous, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 5-12]			
[Infiltration Cellular TGLS = 5-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 933	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 713 HISTO: 21320300933
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Nose	Adventitia	Squamous Cell Carcinoma	
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 12-3]			
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
		Hyperplasia	Moderate
Rete Testes		Dilatation	Minimal
Saliv Glands			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 3-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.1]			
Testes		Hemorrhage	Moderate
[Hemorrhage TGLS = 2-7]			
Thymus		Atrophy	Marked
Tissue NOS		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 11-13]			
PRIMARY CAUSE OF DEATH - Tissue NOS Squamous Cell Carcinoma			
Animal Note: Pathologist noted : Lymph Node, Renal, hyperplasia, lymphoid, mild and Lymph Node, Renal degeneration, cystic, marked			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 934

TRT#: 21

SEX: Male

DAY ON TEST: 715

DOSE: F3 100PPM TO CTL

DISP: Moribund

HISTO: 21320300934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Epididymis		Degeneration	Mild
		Hypospermia	Marked
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
		Tension Lipidosis	Moderate
[Tension Lipidosis TGLS = 2-5]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Marked
		Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 934	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Moribund	DAY ON TEST: 715 HISTO: 21320300934
ORGAN AND ACCOUNTABLE SITE STATUS			
[Squamous Cell Carcinoma TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
Rete Testes		Dilatation	Moderate
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	- Preputial Gland	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 938

TRT#: 19

SEX: Male

DAY ON TEST: 729

DOSE: F3 0 PPM

DISP: Moribund

HISTO: 21320300938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Mild
Lymph Node	Lumbar	Congestion	Moderate
	Mediastinal	Congestion	Moderate
	Renal	Congestion	Moderate
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Popliteal	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
	Mediastinal	Infiltration Cellular	Plasma Cell, Mild
	Renal	Infiltration Cellular	Plasma Cell, Marked

[Congestion TGLS = 5-13.2]

[Congestion TGLS = 1-13]

[Congestion TGLS = 3-13.1]

[Hyperplasia TGLS = 6-13.3]

[Hyperplasia TGLS = 1-13]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 938	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 729 HISTO: 21320300938
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 5-13.2]			
[Infiltration Cellular TGLS = 3-13.1]			
[Infiltration Cellular TGLS = 1-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Congestion	Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Congestion TGLS = 4-9.1]			
[Infiltration Cellular TGLS = 4-9.1]			
Pancreas	Acinar Cell	Degeneration	Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Chronic Active, Mild
		Schwannoma Malignant	
[Inflammation TGLS = 7-5.2]			
[Schwannoma Malignant TGLS = 2-5.1]			
Spleen		Hematopoietic Cell Proliferation	Marked
Thymus		Atrophy	Marked
Urinary Bladder		Hemorrhage	Mild
PRIMARY CAUSE OF DEATH	- Skin	Schwannoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 946	TRT#: 21	SEX: Male	DAY ON TEST: 737
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urethra	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Adenoma Degeneration Vacuolization Cytoplasmic	Cystic, Mild Moderate
[Adenoma TGLS = 4-3] [Degeneration TGLS = 4-3] [Vacuolization Cytoplasmic TGLS = 4-3]			
Bone Marrow	Erythroid Cell	Hyperplasia	Marked
Kidney	Cortex Pelvis	Cyst Hyperplasia Nephropathy	Minimal Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia Inflammation Necrosis	Mild Chronic Active, Minimal Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
[Infiltration Cellular TGLS = 7-10]			
Lymph Node	Lumbar Lumbar Lumbar	Degeneration Infiltration Cellular Pigmentation	Cystic, Marked Plasma Cell, Moderate Mild
Note: TGL # 06 - NOTED GROSSLY AS LYMPH NODE, INGUINAL WAS URETHRA, BULBOURETHRAL GLAND [Degeneration TGLS = 5-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 946

TRT#: 21

SEX: Male

DAY ON TEST: 737

DOSE: F3 100PPM TO CTL

DISP: Moribund

HISTO: 21320300946

ORGAN AND ACCOUNTABLE SITE STATUS

[Infiltration Cellular TGLS = 5-13]

[Pigmentation TGLS = 5-13]

Lymph Node, Mandibular

Hyperplasia
Infiltration Cellular

Lymphoid, Mild
Plasma Cell, Moderate

Mammary Gland

Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS PREPUTIAL GLAND

Note: TGL # 02 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN

Pancreas

Acinar Cell

Degeneration

Mild

Pituitary Gland

Pars Distalis

Cyst

Preputial Gland

Duct

Carcinoma

Dilatation

Inflammation

Marked

Suppurative, Mild

[Carcinoma TGLS = 1-5.1]

Prostate, Dorsal Lobe

Inflammation

Suppurative, Moderate

Prostate, Ventral Lobe

Hyperplasia

Marked

Skin

Squamous Cell Carcinoma

[Squamous Cell Carcinoma TGLS = 2-5.2]

Spleen

Hematopoietic Cell Proliferation

Moderate

[Hematopoietic Cell Proliferation TGLS = 8-5]

Thymus

Atrophy

Marked

Thyroid Gland

C Cell

Hyperplasia

Minimal

Urethra

Note: TGL # 06 - NO MICROSCOPIC CORRELATE

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 947	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 742 HISTO: 21320300947
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Pancreas
Pituitary Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Skin	Stomach, Forestomach	Stomach, Glandular	Urinary Bladder

MISSING

Parathyroid Gland	Rete Testes	Thyroid Gland
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AUTO PRECLUDES DIAG.

Eye

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Blood Vessel		Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
Coagulating Gland		Atrophy	Mild
Epididymis		Degeneration	Moderate
		Hypospermia	Marked
Esophagus	Adventitia	Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
Heart	Pericardium	Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
	Pericardium	Inflammation	Chronic Active, Minimal
Kidney		Accumulation, Hyaline Droplet	Marked
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 7-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
[Fibrous Histiocytoma TGLS = 2,3,4,5-10]			
Lymph Node, Mandibular		Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
Mammary Gland		Degeneration	Mild
Nose		Inflammation	Suppurative, Marked
Parathyroid Gland			
Note: PATHOLOGIST NOTED: MISSING AT TRIM DUE TO NECK MASS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 947	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 742 HISTO: 21320300947
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Degeneration Infiltration Cellular	Minimal Lymphocyte, Mild
Salivary Glands		Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
Seminal Vesicle		Atrophy	Mild
Skeletal Muscle		Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
[Fibrous Histiocytoma TGLS = 1,8-13.1+13]			
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal
Thymus	Adventitia	Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
[Fibrous Histiocytoma TGLS = 6-1]			
Thyroid Gland			
Note: PATHOLOGIST NOTED: MISSING AT TRIM DUE TO NECK MASS			
Trachea	Adventitia	Fibrous Histiocytoma	Metastatic (Uncertain Primary Site)
PRIMARY CAUSE OF DEATH	- Thymus Adventitia Fibrous Histiocytoma Uncertain Primary Site		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 948	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 744 HISTO: 21320300948
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
Bone, Femur	* Esophagus	* Harderian Gland	* Heart
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

Rete Testes

AUTO PRECLUDES DIAG.

* Brain - Cerebellum	* Brain - Cerebrum	Coagulating Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Preputial Gland	Prostate, Ventral Lobe
* Seminal Vesicle	* Stomach, Glandular		

OBSERVATIONS

* Brain [Compression TGLS = 5-8]	Brain Stem	Compression	Mild
* Epididymis		Inflammation	Mild
* Eye	Bilateral, Retina	Atrophy	Moderate
* Int Lg Colon Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung [Infiltration Cellular TGLS = 3-10]		Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
* Nose		Hyperkeratosis	Marked
		Inflammation	Suppurative, Marked
* Pancreas		Autolysis	Marked
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 948	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 744 HISTO: 21320300948
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Autolysis	Moderate
* Sem Ves		Inflammation	Suppurative, Mild
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
* Spleen		Pigmentation	Marked
* Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 970	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300970
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Heart	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Glandular
Testes	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 2-6.1]			
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Eye	Bilateral, Retina	Atrophy	Mild
Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
Kidney	Cortex	Cyst	
Liver		Nephropathy	Chronic, Mild
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Multiple
	Biliar Tract	Fibrosis	Minimal
		Hematopoietic Cell Proliferation	Minimal
Lymph Node, Mandibular	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Infiltration Cellular	Lymphocyte, Minimal
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland		Pigmentation	Minimal
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 970	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300970
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Degeneration	Mild
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Suppurative, Minimal
[Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Marked
Spleen		Pigmentation	Mild
Stomach, Forestomach		Infiltration Cellular	Lymphocyte, Moderate
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 971

TRT#: 19

SEX: Male

DAY ON TEST: 751

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320300971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland
Nose	Pituitary Gland	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Liver	Capsule	Hemorrhage	Moderate
[Hemorrhage TGLS = 1-5]			
Lung	Artery	Mineralization	Minimal
		Thrombosis	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 972

TRT#: 19

SEX: Male

DAY ON TEST: 751

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320300972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
[Cyst TGLS = 1-2]			
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 3-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Degeneration	Mild
		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 973

TRT#: 19

SEX: Male

DAY ON TEST: 751

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320300973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Eye	Bilateral, Retina	Atrophy	Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Capsule	Fibrosis	Minimal
Liver		Inflammation	Chronic Active, Mild
		Necrosis	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Plasma Cell, Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen	Capsule	Fibrosis	Mild
		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 973	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300973
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 974	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300974
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Liver		Inflammation	Suppurative, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Moderate
Spleen		Pigmentation	Moderate
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 975	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300975
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver		Degeneration	Cystic, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-12]			
[Infiltration Cellular TGLS = 4-12]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Mild
[Degeneration TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 975	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300975
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 976	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300976
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric
Nose	Pancreas	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver		Eosinophilic Focus	Multiple
Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
[Infiltration Cellular TGLS = 3,4-10]			
[Metaplasia TGLS = 3,4-10]			
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-12]			
Mammary Gland		Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 976	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300976
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 977	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300977
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Eye	Bilateral, Retina	Atrophy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lung	Alveolar Epith	Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Moderate
[Hyperplasia TGLS = 2-10]			
[Infiltration Cellular TGLS = 2-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Lactation	Mild
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 978	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300978
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Coagulating Gland	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Hypertrophy	Marked
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
Brain	Cerebrum	Gliosis	Mild
	Cerebrum	Infiltration Cellular	Lymphocyte, Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
		Congestion	Marked
[Cardiomyopathy TGLS = 3-1]			
[Congestion TGLS = 3-1]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2-10]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 978	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300978
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Mesothelioma Malignant Degeneration	Minimal
Thymus	Epithel Cell	Mesothelioma Malignant Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 979

TRT#: 20

SEX: Male

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Small, Ileum

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Coagulat GI			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-5]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-12]			
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Duct	Dilatation	Moderate
Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 979	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300979
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Fibroma	
		Inflammation	Suppurative, Marked
[Fibroma TGLS = 1-5.3]			
[Inflammation TGLS = 7-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Marked
		Polyarteritis	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 980	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Brain	Cerebrum	Astrocytoma Malignant	
Epididymis		Degeneration	Minimal
		Hypospermia	Mild
Eye	Bilateral, Retina	Atrophy	Minimal
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Mild
[Cyst TGLS = 5-2]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-10.1]			
Lymph Node	Renal	Degeneration	Cystic, Marked
	Renal	Hemorrhage	Moderate
	Renal	Hyperplasia	Lymphoid, Mild
[Degeneration TGLS = 4-13]			
[Hemorrhage TGLS = 4-13]			
[Hyperplasia TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 980	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300980
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration Inflammation	Minimal Suppurative, Minimal
[Degeneration TGLS = 2-6.2] [Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Mild
Skin [Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Marked
Testes [Degeneration TGLS = 3-7]	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 981	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Preputial Gland
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Bilateral, Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGSL = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Metaplasia	Osseous, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGSL = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 981	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300981
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 982	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mandibular	Nose	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	

MISSING

Urinary Bladder

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Marked
Epididymis		Hypospermia	Marked
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
	Capsule	Fatty Change	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 5-13]			
[Hyperplasia TGLS = 5-13]			
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:54

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 982	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300982
ORGAN AND ACCOUNTABLE SITE STATUS			
Rete Testes		Dilatation	Marked
		Fibrosis	Moderate
Skin		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Congestion	Marked
[Congestion TGLS = 3-5]			
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 983	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300983
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Brain	Cerebrum	Gliosis	Marked
Epididymis		Degeneration	Minimal
		Hypospermia	Marked
Eye	Bilateral, Retina	Atrophy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cyst	
[Cyst TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Moderate
		Metaplasia	Osseous, Minimal
[Infiltration Cellular TGLS = 5-10]			
[Metaplasia TGLS = 5-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 983		TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300983
ORGAN AND ACCOUNTABLE SITE STATUS				
Prostate, Dorsal Lobe		Inflammation		Suppurative, Mild
Prostate, Ventral Lobe		Degeneration		Mild
		Hyperplasia		Minimal
Rete Testes		Dilatation		Mild
		Fibrosis		Moderate
Skin		Inflammation		Suppurative, Marked
[Inflammation TGLS = 1-5.2]				
Spleen		Hematopoietic Cell Proliferation		Mild
		Pigmentation		Mild
Testes		Degeneration		Marked
[Degeneration TGLS = 4-7]				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 984	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300984
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 3-12]			
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 6-5]			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 984	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300984
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Abscess	Marked
		Degeneration	Moderate
		Infiltration Cellular	Lymphocyte, Marked
[Abscess TGLS = 2-6.2] [Degeneration TGLS = 2-6.2] [Infiltration Cellular TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen	Seminif Tub	Hyperplasia	Lymphoid, Mild
		Pigmentation	Minimal
Testes		Degeneration	Mild
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 985	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300985
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Coagulating Gland	Epididymis	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mandibular
Mammary Gland	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla	Bilateral	Hyperplasia	Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain	Cerebrum	Vacuolization Cytoplasmic	Minimal
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-5]		Hyperplasia	Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 985	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300985
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Epidermis	Hyperkeratosis	Mild
[Hyperkeratosis TGLS = 1-5.2]		Hyperplasia	Mild
[Hyperplasia TGLS = 1-5.2]			
Spleen	Seminif Tub	Hematopoietic Cell Proliferation	Minimal
Testes		Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 986

TRT#: 22

SEX: Male

DAY ON TEST: 751

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric
Nose	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Tissue NOS	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Rete Testes

OBSERVATIONS

Bone Marrow		Hypocellularity	Moderate
Coagulating Gland		Atrophy	Moderate
Epididymis		Atrophy	Moderate
		Degeneration	Moderate
		Hypospermia	Marked
Eye	Bilateral, Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 4-12]			
[Infiltration Cellular TGLS = 4-12]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 986	TRT#: 22	SEX: Male	DAY ON TEST: 751
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300986
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Degeneration	Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
		Mineralization	Mild
Seminal Vesicle		Atrophy	Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.2]			
Spleen	Capsule	Fibrosis	Mild
Testes	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
Tissue NOS			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE (TOOTH)			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 987	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300987
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	

MISSING

Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
Adrenal Medulla		Hyperplasia	Mild
Eye	Bilateral, Retina	Atrophy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver		Degeneration	Cystic, Moderate
[Degeneration TGLS = 1-5]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:54
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 988	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300988
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 989

TRT#: 22

SEX: Male

DAY ON TEST: 751

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
		Pigmentation	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 989	TRT#: 22	SEX: Male	DAY ON TEST: 751
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300989
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 1-6.2]		Infiltration Cellular	Lymphocyte, Mild
[Infiltration Cellular TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 990

TRT#: 19

SEX: Male

DAY ON TEST: 752

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320300990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Pancreas	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Marked
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Eye	Bilateral, Retina	Atrophy	Moderate
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
[Cyst TGLS = 4-2]			
[Nephropathy TGLS = 4-2]			
Liver		Angiectasis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Multiple
[Adenoma TGLS = 2-3]			
[Cyst TGLS = 2-3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 990	TRT#: 19	SEX: Male	DAY ON TEST: 752
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300990
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
[Hyperkeratosis TGLS = 1-5.2]			
[Hyperplasia TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Testes		Polyarteritis	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 991	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300991
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lymph Node, Mesenteric	Nose	Pancreas	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
Mammary Gland	Alveolus	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 991	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300991
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 992	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300992
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Medulla		Pheochromocytoma Benign	
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Eye	Bilateral, Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 2-10]			
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 993

TRT#: 20

SEX: Male

DAY ON TEST: 752

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Nose	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Eye	Bilateral, Retina	Atrophy	Mild
	Cornea	Hyperplasia	Moderate
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Lymph Node	Renal	Degeneration	Cystic, Mild
	Renal	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 993	TRT#: 20	SEX: Male	DAY ON TEST: 752
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300993
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 994	TRT#: 20	SEX: Male	DAY ON TEST: 752
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Renal Tubule	Inflammation	Suppurative, Mild
		Nephropathy	Chronic, Moderate
Liver		Angiectasis	Mild
		Basophilic Focus	
		Degeneration	Cystic, Mild
[Angiectasis TGLS = 2-5]			
[Basophilic Focus TGLS = 2-5]			
[Degeneration TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 994	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300994
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 995

TRT#: 20

SEX: Male

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Nose	Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Eye	Bilateral, Retina	Atrophy	Mild
Harderian Gland		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Degeneration	Cystic, Minimal
Lung		Adenocarcinoma	
[Adenocarcinoma TGLS = 2-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 996	TRT#: 21	SEX: Male	DAY ON TEST: 752
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 3-10]			
[Mineralization TGLS = 3-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-13]			
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 996	TRT#: 21	SEX: Male	DAY ON TEST: 752
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300996
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 997	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300997
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric	Nose
Pancreas	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis		Hypospermia	Marked
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-12]			
Mammary Gland		Lactation	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 997	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300997
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Seminif Tub	Degeneration	Marked
		Fibrosis	Moderate
[Degeneration TGLS = 4-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 998	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300998
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
INSUFFICIENT TISSUE			
Mammary Gland	Rete Testes		
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
	Myeloid Cell	Hyperplasia	Marked
Epididymis		Degeneration	Minimal
		Hypospermia	Marked
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Mild
[Infiltration Cellular TGLS = 6-10]			
[Mineralization TGLS = 6-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 5-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 998	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300998
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Marked
Seminal Vesicle		Atrophy	Mild
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 999

TRT#: 21

SEX: Male

DAY ON TEST: 751

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
		Hemorrhage	Minimal
		Inflammation	Chronic Active, Minimal
[Degeneration TGLS = 1-5]			
[Hemorrhage TGLS = 1-5]			
[Inflammation TGLS = 1-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 5-13]			
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 999	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300999
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 4-6.2]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 6-5.3]			
Spleen	Capsule	Cyst	Multiple
		Hematopoietic Cell Proliferation	Mild
[Cyst TGLS = 3-5.2]			
[Hematopoietic Cell Proliferation TGLS = 2-5]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1000	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urethra	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 2-13]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
Note: TGL # 05 - NOTED GROSSLY AS LYMPH NODE, INGUINAL WAS URETHRA, BULBOURETHRAL GL			
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Moderate
	Alveolus	Hyperplasia	Minimal
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1000	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301000
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Thymus		Atrophy	Marked
Urethra			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1001	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301001
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-3]			
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
Thyroid Gland			
Note: TGL # 02 - NOTED GROSSLY AS THYROID GLAND WAS PARATHYROID GLAND			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1001	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301001

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1002	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
Lung	Artery	Mineralization	Minimal
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Chronic Active, Mild
		Necrosis	Mild
[Inflammation TGLS = 1-5.2]			
[Necrosis TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1002	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301002
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 2-13]			
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1003

TRT#: 21

SEX: Male

DAY ON TEST: 751

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Prostate, Dorsal Lobe	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Capsule	Fatty Change	
		Nephropathy	Chronic, Mild
[Fatty Change TGLS = 2-2]			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Dilatation TGLS = 1-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1003	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301003
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-6.2]			
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Rete Testes		Dilatation	Minimal
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1004	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Hyperplasia	Tubular, Mild
		Nephropathy	Chronic, Marked
[Cyst TGLS = 3,4-2+2.1]			
[Hyperplasia TGLS = 3,4-2+2.1]			
[Nephropathy TGLS = 3,4-2+2.1]			
Lung		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
[Metaplasia TGLS = 7-10]			
[Mineralization TGLS = 7-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Renal	Degeneration	Cystic, Mild
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Renal	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 6-13.1]			
[Degeneration TGLS = 5-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1004	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301004
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 6-13.1] [Hyperplasia TGLS = 5-13] [Infiltration Cellular TGLS = 6-13.1] Lymph Node, Mandibular		Hyperplasia Infiltration Cellular	Lymphoid, Moderate Plasma Cell, Moderate
[Hyperplasia TGLS = 2-12] [Infiltration Cellular TGLS = 2-12] Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Nervosa	Infiltration Cellular	Lymphocyte, Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Seminal Vesicle		Dilatation	Marked
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2] Testes	Seminif Tub	Degeneration Polyarteritis Atrophy	Minimal Mild Marked
Thymus			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1005

TRT#: 21

SEX: Male

DAY ON TEST: 751

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Nose	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Epididymis		Hypospermia	Marked
		Infiltration Cellular	Lymphocyte, Minimal
[Infiltration Cellular TGLS = 3-6.2]			
Eye	Bilateral, Retina	Atrophy	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Pancreas	Acinar Cell	Adenoma	
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Rete Testes		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1005	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301005
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-13]			
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1006	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301006
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
INSUFFICIENT TISSUE			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
		Necrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Minimal
[Infiltration Cellular TGLS = 3-10]			
[Metaplasia TGLS = 3-10]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1006	TRT#: 21	SEX: Male	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301006

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1007

TRT#: 22

SEX: Male

DAY ON TEST: 752

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Bone Marrow

OBSERVATIONS

Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic Active, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Hyperplasia	Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
	Artery	Mineralization	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1007	TRT#: 22	SEX: Male	DAY ON TEST: 752
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301007

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 1-3]
PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1008	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301008
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mesenteric	Nose	Pancreas
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Eye	Retina	Atrophy	Mild
Harderian Gland		Degeneration	Minimal
		Pigmentation	Marked
[Degeneration TGLS = 5-11.1]			
[Pigmentation TGLS = 5-11.1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 3-12]			
[Infiltration Cellular TGLS = 3-12]			
Pituitary Gland	Pars Distalis	Cyst	Multiple
Preputial Gland	Parenchym Cell	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1008	TRT#: 22	SEX: Male	DAY ON TEST: 751
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301008
ORGAN AND ACCOUNTABLE SITE STATUS			
	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
Rete Testes		Dilatation	Mild
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1009

TRT#: 22

SEX: Male

DAY ON TEST: 751

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

MISSING

Rete Testes

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
	Pelvis	Mineralization	Mild
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lung	Artery	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Mild
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1009	TRT#: 22	SEX: Male	DAY ON TEST: 751
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301009
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1010

TRT#: 22

SEX: Male

DAY ON TEST: 751

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- Adrenal Medulla
- Brain - Brain Stem
- Esophagus
- Intestine Large, Colon
- Intestine Small, Jejunum
- Parathyroid Gland
- Stomach, Forestomach
- Urinary Bladder

Blood Vessel
Brain - Cerebellum
Eye
Intestine Large, Rectum
Lymph Node, Mesenteric
Rete Testes
Stomach, Glandular

- Bone Marrow
- Brain - Cerebrum
- Harderian Gland
- Intestine Small, Duodenum
- Mammary Gland
- Salivary Glands
- Trachea

Bone, Femur
Coagulating Gland
Intestine Large, Cecum
Intestine Small, Ileum
Nose
Seminal Vesicle
Urethra

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex

Degeneration
Hyperplasia
Vacuolization Cytoplasmic
Mesothelioma Malignant

Cystic, Moderate
Mild
Mild

Epididymis
[Mesothelioma Malignant TGLS = 3-6.2]

Heart
Islets, Pancreatic
Kidney

- Cardiomyopathy
- Hyperplasia
- Cyst
- Hyperplasia
- Nephropathy
- Papilloma

Minimal
Minimal

Tubular, Mild
Chronic, Moderate

Cortex

Transit Epithe

- [Cyst TGLS = 6-2]
- [Hyperplasia TGLS = 6-2]
- [Nephropathy TGLS = 6-2]
- [Papilloma TGLS = 6-2]

[illegible]

- Fibrosis
- Hyperplasia
- Hemorrhage
- Infiltration Cellular

Minimal
Minimal
Marked
Histiocyte, Marked

Lung

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1010	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301010
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
Note: TGL # 04 - NOTED GROSSLY AS LYMPH NODE, INGUINAL WAS URETHRA, BULBOURETHRAL GL			
[Degeneration TGLS = 5-13.1]			
[Infiltration Cellular TGLS = 5-13.1]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-7]			
Thyroid Gland		Cyst	Squamous
Urethra			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1011	TRT#: 22	SEX: Male	DAY ON TEST: 751
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
	Myeloid Cell	Hyperplasia	Moderate
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Tension Lipidosis	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-10]			
Lymph Node	Renal	Degeneration	Cystic, Marked
	Renal	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1011	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301011
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1012	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301012
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Pituitary Gland
Preputial Gland	Prostate, Dorsal Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Eye	Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Tension Lipidosis	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Mild
Prostate, Ventral Lobe		Degeneration	Minimal
Skin		Inflammation	Suppurative, Marked
		Keratoacanthoma	
[Inflammation TGLS = 2-5.3]			
[Keratoacanthoma TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1012	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301012
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
Urinary Bladder		Hemorrhage	Minimal
	Transit Epithe	Hypertrophy	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1013	TRT#: 22	SEX: Male	DAY ON TEST: 751
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	

OBSERVATIONS

Adrenal Cortex		Angiectasis	Marked
		Degeneration	Cystic, Marked
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Epididymis		Degeneration	Mild
		Hyperplasia	Mild
		Hypospermia	Moderate
[Hypospermia TGLS = 5-6.3]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 3-2]			
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1013	TRT#: 22	SEX: Male	DAY ON TEST: 751
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301013
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Degeneration	Mild
		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Moderate
[Degeneration TGLS = 2-13]			
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
Urinary Bladder		Dilatation	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1044	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301044
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Hyperkeratosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1044	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301044
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 2-5.3] [Hyperplasia TGLS = 2-5.3] [Inflammation TGLS = 1-5.2] Thymus	Epidermis	Hyperplasia	Mild
		Inflammation	Suppurative, Marked
	Atrophy		Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1045	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301045
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Renal	Degeneration	Cystic, Mild
	Renal	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Mild
Nose		Inflammation	Suppurative, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 1-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1045	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301045
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Degeneration Infiltration Cellular Inflammation	Moderate Lymphocyte, Minimal Suppurative, Marked
Skin [Inflammation TGLS = 3,4-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1046

TRT#: 19

SEX: Male

DAY ON TEST: 754

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Mammary Gland	Rete Testes
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Coagulating Gland	Atrophy	Mild
Harderian Gland	Infiltration Cellular	Lymphocyte, Mild
Heart	Cardiomyopathy	Minimal
Islets, Pancreatic [Adenoma TGLS = 1-5]	Adenoma	
Kidney	Nephropathy	Chronic, Mild
Lung [Infiltration Cellular TGLS = 3-10]	Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular	Degeneration	Cystic, Minimal
	Hyperplasia	Lymphoid, Mild
	Infiltration Cellular	Plasma Cell, Marked
	Infiltration Cellular	Plasma Cell, Mild
	Inflammation	Granulomatous, Mild
Nose	Hyperplasia	Mild
Pancreas	Degeneration	Moderate
Note: TGL # 01 - NOTED GROSSLY AS PANCREAS WAS ISLETS PANCREAS		
Pituitary Gland	Adenoma	
Preputial Gland	Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe	Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1046	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301046
ORGAN AND ACCOUNTABLE SITE STATUS			
Seminal Vesicle [Atrophy TGLS = 2-6.1]		Atrophy	Mild
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1047	TRT#: 19	SEX: Male	DAY ON TEST: 754
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Prostate, Dorsal Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex	Bilateral	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Lung	Artery	Mineralization	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Mild
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Marked
Nose		Inflammation	Chronic, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 2-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1047	TRT#: 19	SEX: Male	DAY ON TEST: 754
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301047

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1048	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301048
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Degeneration Vacuolization Cytoplasmic	Cystic, Moderate Minimal
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Lymph Node, Mandibular		Hyperplasia Infiltration Cellular	Lymphoid, Mild Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration Infiltration Cellular	Minimal Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Hyperplasia	Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1048	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301048
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1049	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Pancreas	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Mineralization	Mild
		Nephropathy	Chronic, Mild
Liver		Eosinophilic Focus	Multiple
Mammary Gland		Degeneration	Marked
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Duct	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Dilatation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1049	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301049

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1050	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
	Artery	Mineralization	Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Marked
Preputial Gland	Parenchym Cell	Degeneration	Marked
		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
	Red Pulp	Hyperplasia	Marked
		Hyperplasia	Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1050	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301050
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hematopoietic Cell Proliferation TGLS = 2-5]		Pigmentation	Mild
[Hyperplasia TGLS = 2-5]			
[Hyperplasia TGLS = 2-5]			
[Pigmentation TGLS = 2-5]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1051	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301051
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
		Tension Lipidosis	Moderate
[Hepatodiaphragmatic Nodule TGLS = 2-5]			
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Marked
		Polyarteritis	Marked
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Chronic Active, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1052

TRT#: 20

SEX: Male

DAY ON TEST: 754

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Moderate
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1053	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Epididymis		Hypospermia	Marked
[Hypospermia TGLS = 4-6.3]			
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 2-2]			
Liver		Tension Lipidosis	Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 3-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1053	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301053

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1054

TRT#: 21

SEX: Male

DAY ON TEST: 755

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Pancreas	Pituitary Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Mild
Eye	Cornea	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Parathyroid Gland		Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Thymus		Atrophy	Marked
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1055	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
Adrenal Medulla		Hyperplasia	Mild
Coagulating Gland		Sarcoma	Metastatic (Uncertain Primary Site)
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 4-10]			
[Metaplasia TGLS = 4-10]			
[Mineralization TGLS = 4-10]			
Lymph Node	Renal	Degeneration	Cystic, Mild
	Renal	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1055	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301055
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 5-9.1]			
Mammary Gland		Lactation	Minimal
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
		Sarcoma	Metastatic (Uncertain Primary Site)
Prostate, Ventral Lobe		Adenoma	
		Hyperplasia	Moderate
Seminal Vesicle		Sarcoma	Metastatic (Uncertain Primary Site)
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1056	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301056
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Thymus			
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OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Eye		Hemorrhage	Marked
		Inflammation	Suppurative, Marked
[Hemorrhage TGLS = 4-11.1]			
[Inflammation TGLS = 4-11.1]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mandibular			
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Marked
		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1056	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301056
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Moderate
Skin		Cyst Epithelial Inclusion	
		Inflammation	Suppurative, Marked
		Squamous Cell Carcinoma	
	[Cyst Epithelial Inclusion TGLS = 3-13]		
	[Inflammation TGLS = 3-13]		
	[Squamous Cell Carcinoma TGLS = 3-13]		
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
PRIMARY CAUSE OF DEATH		-	
Animal Note: TGL # 03 - Noted grossly as Bone was Skin			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1057

TRT#: 22

SEX: Male

DAY ON TEST: 754

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Eye	Bilateral, Retina	Atrophy	Mild
Harderian Gland		Adenoma	
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
[Cyst TGLS = 6-2]			
[Nephropathy TGLS = 6-2]			
Liver		Angiectasis	Mild
[Angiectasis TGLS = 3-5]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Hyperplasia TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1057	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301057
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
Preputial Gland [Dilatation TGLS = 2-6.2] [Inflammation TGLS = 2-6.2]	Duct	Dilatation Inflammation	Mild Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin [Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Marked
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1058	TRT#: 22	SEX: Male	DAY ON TEST: 754
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4-10]			
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1058	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301058
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1059

TRT#: 22

SEX: Male

DAY ON TEST: 754

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric
Nose	Pituitary Gland	Prostate, Ventral Lobe	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland	Rete Testes
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OBSERVATIONS

Heart	Cardiomyopathy	Minimal
Islets, Pancreatic	Hyperplasia	Mild
Kidney	Nephropathy	Chronic, Mild
Note: TGL # 01 - NO MICROSCOPIC CORRELATE		
Liver	Angiectasis	Mild
	Degeneration	Cystic, Mild
	Hyperplasia	Minimal
	Necrosis	Minimal
[Angiectasis TGLS = 4-5]		
[Degeneration TGLS = 4-5]		
[Hyperplasia TGLS = 4-5]		
[Necrosis TGLS = 4-5]		
Lung	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2-10]		
Lymph Node, Mandibular	Hyperplasia	Lymphoid, Minimal
	Infiltration Cellular	Plasma Cell, Mild
Mammary Gland	Hyperplasia	Mild
Pancreas	Degeneration	Moderate
	Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1059	TRT#: 22	SEX: Male	DAY ON TEST: 754
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301059
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gl			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1060	TRT#: 22	SEX: Male	DAY ON TEST: 754
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
Eye		Autolysis	Marked
Heart		Cardiomyopathy	Minimal
Intestine Large, Cecum	Lymphatic	Ectasia	Marked
[Ectasia TGLS = 5-9]			
Kidney		Nephropathy	Chronic, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Nose		Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1060	TRT#: 22	SEX: Male	DAY ON TEST: 754
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301060
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Inflammation	Chronic, Minimal
Preputial Gland		Degeneration	Marked
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Degeneration	Moderate
[Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Marked
Testes	Seminif Tub	Degeneration	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1061

TRT#: 22

SEX: Male

DAY ON TEST: 754

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lymph Node, Mandibular
Nose	Prostate, Dorsal Lobe	Rete Testes	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
		Degeneration	Cystic, Mild
		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.3]			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Moderate
[Degeneration TGLS = 3-6.2]			
[Dilatation TGLS = 3-6.2]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1061	TRT#: 22	SEX: Male	DAY ON TEST: 754
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301061
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 3-6.2]			
Prostate, Ventral Lobe		Degeneration	Mild
		Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
Salivary Glands		Hypertrophy	Marked
[Hypertrophy TGLS = 5-12]			
Skin		Basal Cell Adenoma	
		Squamous Cell Papilloma	
[Basal Cell Adenoma TGLS = 2-5.4]			
[Squamous Cell Papilloma TGLS = 4-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1066	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301066
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Mammary Gland
Nose	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adren Medulla			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Adrenal Cortex		Degeneration	Cystic, Mild
		Vacuolization Cytoplasmic	Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Coagulating Gland		Fibrosis	Marked
		Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 6-2]			
Liver		Eosinophilic Focus	
Lym Node Mand			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Adenoma	
	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
	Duct	Dilatation	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1066	TRT#: 21	SEX: Male	DAY ON TEST: 754
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301066
ORGAN AND ACCOUNTABLE SITE STATUS			
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Rete Testes		Dilatation	Mild
Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Moderate
[Hyperkeratosis TGLS = 1-5]			
[Hyperplasia TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 4-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1067

TRT#: 21

SEX: Male

DAY ON TEST: 754

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Liver
Lymph Node, Mandibular	Mammary Gland	Nose	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 5-10]			
[Mineralization TGLS = 5-10]			
Lymph Node	Pancreatic	Hemorrhage	Mild
	Pancreatic	Hyperplasia	Lymphoid, Mild
[Hemorrhage TGLS = 2-13.1]			
[Hyperplasia TGLS = 2-13.1]			
Lymph Node, Mesenteric		Hemorrhage	Moderate
		Hyperplasia	Lymphoid, Mild
[Hemorrhage TGLS = 7-9.1]			
[Hyperplasia TGLS = 7-9.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1067	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301067
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland		Abscess	Marked
	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Marked
		Infiltration Cellular	Lymphocyte, Marked
[Abscess TGLS = 1-6.2]			
[Degeneration TGLS = 1-6.2]			
[Dilatation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Testes	Seminif Tub	Degeneration	Marked
		Edema	Moderate
[Degeneration TGLS = 4-13]			
[Edema TGLS = 4-13]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1068	TRT#: 21	SEX: Male	DAY ON TEST: 754
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1068	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301068
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1069	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301069
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate, Dorsal Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node	Renal	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Marked
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Cyst	
Prostate, Ventral Lobe		Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1,2-5.2]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1072	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301072
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
		Mineralization	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Cyst	
		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1072	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301072
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Minimal
	Interstit Cell	Hyperplasia	Moderate
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1073	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301073
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Nose	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-3]			
Epididymis		Degeneration	Minimal
		Hypospermia	Marked
Heart		Cardiomyopathy	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 6-2]			
Liver		Angiectasis	Mild
[Angiectasis TGLS = 3,5-5+5.2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
[Infiltration Cellular TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1073	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301073
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Rete Testes		Fibrosis	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 2-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1074	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urethra	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
	Endocardium	Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGSL = 4-2]			
Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Mild
[Degeneration TGSL = 2-6.2]			
[Dilatation TGSL = 2-6.2]			
[Inflammation TGSL = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGSL = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1074	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301074
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
Urethra			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 03 - Noted grossly as Lymph Node, Inguinal was Urethra, Bulbourethral Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1075	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301075
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lymph Node, Mandibular	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Accessory Adrenal Cortical Nodule	
Adrenal Medulla		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Mild
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1075	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301075

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1076

TRT#: 20

SEX: Male

DAY ON TEST: 754

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Nose	Pancreas	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Vacuolization Cytoplasmic	Mild
Coagulating Gland		Atrophy	Mild
Epididymis		Atrophy	Mild
		Hypospermia	Marked
Harderian Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Intestine Large, Cecum		Polyarteritis	Moderate
[Polyarteritis TGLS = 8-9]			
Intestine Large, Colon		Polyarteritis	Moderate
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Popliteal	Degeneration	Cystic, Mild
	Renal	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Popliteal	Hyperplasia	Lymphoid, Marked
	Renal	Hyperplasia	Lymphoid, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
	Popliteal	Infiltration Cellular	Plasma Cell, Marked
	Renal	Infiltration Cellular	Plasma Cell, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1076	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301076
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 2-13] [Degeneration TGLS = 4-13.1] [Degeneration TGLS = 5-13.2] [Hyperplasia TGLS = 5-13.2] [Hyperplasia TGLS = 4-13.1] [Hyperplasia TGLS = 2-13] [Infiltration Cellular TGLS = 2-13] [Infiltration Cellular TGLS = 4-13.1] [Infiltration Cellular TGLS = 5-13.2]			
Lymph Node, Mandibular		Degeneration Hyperplasia Infiltration Cellular	Cystic, Mild Lymphoid, Marked Plasma Cell, Moderate
Mammary Gland	Alveolus	Hyperplasia	Minimal
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland	Duct	Dilatation Infiltration Cellular	Marked Lymphocyte, Minimal
[Dilatation TGLS = 1-6.2]			
Rete Testes		Dilatation	Mild
Seminal Vesicle		Atrophy	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 7-5]			
Testes	Seminif Tub	Degeneration Polyarteritis	Marked Marked
Thymus		Atrophy	Moderate
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1077	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate
Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urethra	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Coagulat GI			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Islets, Pancreatic		Adenoma	
		Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 1-6.1]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1077	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301077
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
Urethra			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 04 - Noted grossly as Lymph Node, Inguinal was Urethra, Bulbourethral Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1078	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric	Nose
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Marked
[Degeneration TGLS = 2-3]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Minimal
		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
[Angiectasis TGLS = 3-5]			
[Inflammation TGLS = 3-5]			
Lung		Metaplasia	Osseous, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Mediastinal	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 4-13]			
[Degeneration TGLS = 5-13.1]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
		Hyperplasia	Minimal
Mammary Gland	Alveolus		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1078	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301078
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Moderate
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Skin [Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Marked
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1079	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lymph Node, Mandibular
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Note: TGL # 04 - NO MICROSCOPIC CORRELATE [Cyst TGLS = 3-2]			
Lung		Metaplasia	Osseous, Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Minimal
Nose		Inflammation	Suppurative, Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Parathyroid Gland		Adenoma	
	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Marked
[Dilatation TGLS = 2-6.2] [Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1079	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301079
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Rete Testes		Dilatation	Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 5-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1080	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301080
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	

MISSING

Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Small, Ileum

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy Vacuolization Cytoplasmic Cardiomyopathy	Cystic, Minimal Mild Minimal Minimal
Heart		Cyst	
Kidney	Cortex	Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Lymph Node	Lumbar Lumbar Lumbar	Degeneration Hyperplasia Infiltration Cellular	Cystic, Moderate Lymphoid, Moderate Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-12]			
Mammary Gland		Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1080	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301080
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1081

TRT#: 21

SEX: Male

DAY ON TEST: 755

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
		Mineralization	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Eosinophilic Focus	
		Vacuolization Cytoplasmic	Mild
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Preputial Gland		Inflammation	Suppurative, Mild
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Cyst Epithelial Inclusion	
		Inflammation	Granulomatous, Marked
		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1081	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301081
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst Epithelial Inclusion TGLS = 1-5] [Inflammation TGLS = 1-5] [Inflammation TGLS = 3-5.2]			
Testes Thymus	Seminif Tub	Degeneration Atrophy	Minimal Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1082	TRT#: 22	SEX: Male	DAY ON TEST: 754
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Nose
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Coagulat GI			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Epididymis		Degeneration	Mild
		Hypospermia	Marked
		Infiltration Cellular	Lymphocyte, Minimal
[Degeneration TGLS = 2-6.3]			
[Hypospermia TGLS = 2-6.3]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1082	TRT#: 22	SEX: Male	DAY ON TEST: 754
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301082
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Hyperplasia	Lymphoid, Minimal
		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1083

TRT#: 21

SEX: Male

DAY ON TEST: 755

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Mild
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Moderate
		Polycystic Kidney	Marked
[Polycystic Kidney TGLS = 2-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland			
Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			
Pancreas	Acinar Cell	Degeneration	Marked
Preputial Gland		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
		Lipoma	
[Inflammation TGLS = 3-5]			
[Lipoma TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1083	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301083
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	Follicular Cel	Hyperplasia	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1084	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301084
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Nose	Prostate, Dorsal Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow		Hypocellularity	Moderate
Heart		Cardiomyopathy	Minimal
Intestine Small, Duodenum		Cyst	
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Mast Cell, Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.3]			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Cyst TGLS = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1084	TRT#: 22	SEX: Male	DAY ON TEST: 754
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301084
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Degeneration	Mild
		Hyperplasia	Minimal
Skin		Inflammation	Chronic Active, Minimal
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1085

TRT#: 22

SEX: Male

DAY ON TEST: 754

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Nose
Pancreas	Pituitary Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Moderate
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
[Degeneration TGLS = 3-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Marked
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Degeneration	Mild
		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hyperplasia	Lymphoid, Mild
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1085	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301085
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1086	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lymph Node, Mesenteric	Nose	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy Vacuolization Cytoplasmic Pheochromocytoma Benign	Cystic, Mild Mild Minimal
Adrenal Medulla		Infiltration Cellular	Lymphocyte, Minimal
Epididymis		Cardiomyopathy	Mild
Heart		Hyperplasia	Minimal
Islets, Pancreatic		Cyst	
Kidney	Cortex	Nephropathy	Chronic, Mild
[Cyst TGLS = 4-2]			
Liver		Basophilic Focus	
Lung	Artery	Mineralization	Mild
Lymph Node, Mandibular		Degeneration Infiltration Cellular	Cystic, Marked Plasma Cell, Mild
[Degeneration TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Preputial Gland	Parenchym Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1086	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301086
ORGAN AND ACCOUNTABLE SITE STATUS			
	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Mild
[Degeneration TGLS = 3-6.2]			
[Dilatation TGLS = 3-6.2]			
[Inflammation TGLS = 3-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1098	TRT#: 19	SEX: Male	DAY ON TEST: 755
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Prostate, Dorsal Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
		Hypertrophy	Mild
		Pheochromocytoma Benign	
Eye	Bilateral, Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 5-10]			
[Infiltration Cellular TGLS = 5-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1098	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301098
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Hyperplasia Inflammation	Lymphoid, Mild Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Moderate
Preputial Gland	Parenchym Cell	Degeneration Inflammation	Minimal Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1099	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301099
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Prostate, Dorsal Lobe
Rete Testes	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Degeneration TGLS = 1,2-5]			
[Eosinophilic Focus TGLS = 1,2-5]			
[Hyperplasia TGLS = 1,2-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Marked
Nose		Inflammation	Suppurative, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1099	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301099
ORGAN AND ACCOUNTABLE SITE STATUS			
Salivary Glands	Acinar Cell	Degeneration Infiltration Cellular Mineralization	Marked Lymphocyte, Moderate Moderate
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1100

TRT#: 20

SEX: Male

DAY ON TEST: 755

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Parathyroid Gland
Pituitary Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Epididymis		Atrophy	Mild
		Hypospermia	Marked
[Hypospermia TGLS = 2-6.3]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 5-9.1]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 6-2]			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Congestion	Moderate
[Congestion TGLS = 7-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13.1]			
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Granulomatous, Minimal
Lymph Node, Mesenteric			
Note: TGL # 05 - NOTED GROSSLY AS LYMPH NODE, MESENTERIC WAS ISLETS PANCREAS			
Mammary Gland		Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1100	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301100
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Degeneration	Mild
		Inflammation	Suppurative, Minimal
Skin	Seminif Tub	Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Testes		Degeneration	Marked
[Degeneration TGLS = 3-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1101	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGSL = 3-2]			
Liver	Biliar Tract	Cyst	
		Tension Lipidosis	Moderate
[Cyst TGSL = 5-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGSL = 4-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Squamous Cell Carcinoma	Metastatic (Preputial Gland)
[Squamous Cell Carcinoma TGSL = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGSL = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1101	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301101
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1102	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301102
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Preputial Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Epididymis		Degeneration	Mild
		Hypospermia	Marked
[Degeneration TGLS = 7-6.2]			
[Hypospermia TGLS = 7-6.2]			
Eye	Bilateral, Retina	Atrophy	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3,8-2]			
Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
[Fibrosis TGLS = 9-5]			
[Hyperplasia TGLS = 9-5]			
Lung			
Note: TGL # 10 - NO MICROSCOPIC CORRELATE			
Lymph Node	Renal	Degeneration	Cystic, Mild
[Degeneration TGLS = 5-13.1]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1102	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301102
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 4-12] [Hyperplasia TGLS = 4-12] Lymph Node, Mesenteric Mammary Gland		Hyperplasia Fibroma Hyperplasia	Lymphoid, Mild Minimal
[Fibroma TGLS = 2-5.3] Nose Pancreas Parathyroid Gland Pituitary Gland Prostate, Dorsal Lobe Prostate, Ventral Lobe Skin	Alveolus Acinar Cell Pars Distalis Epidermis	Inflammation Degeneration Hyperplasia Cyst Inflammation Infiltration Cellular Hyperkeratosis Hyperplasia	Chronic, Mild Moderate Minimal Suppurative, Mild Lymphocyte, Minimal Mild Moderate
[Hyperkeratosis TGLS = 1-5.2] [Hyperplasia TGLS = 1-5.2] Testes [Degeneration TGLS = 6-13] Thymus Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED Thyroid Gland	Seminif Tub C Cell	Degeneration Hyperplasia	Marked Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1130	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301130
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Coagulating Gland	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node, Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Brain	Cerebrum	Developmental Malformation	
	Cerebellum	Hydrocephalus	Mild
	Cerebrum	Hydrocephalus	Moderate
[Developmental Malformation TGLS = 5-8]			
[Hydrocephalus TGLS = 5-8]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Mild
		Necrosis	Minimal
[Angiectasis TGLS = 4-5]			
[Necrosis TGLS = 4-5]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 3-12]			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Marked
[Dilatation TGLS = 2-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1130	TRT#: 19	SEX: Male	DAY ON TEST: 755
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301130
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Seminal Vesicle		Degeneration	Mild
		Dilatation	Moderate
		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1131

TRT#: 19

SEX: Male

DAY ON TEST: 755

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mesenteric	Mammary Gland	Nose
Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-3]			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Nephropathy	Chronic, Mild
		Polycystic Kidney	Marked
[Polycystic Kidney TGLS = 4-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 2-12]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Intermed	Dysplasia	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Rete Testes		Dilatation	Minimal
Skin		Cyst Epithelial Inclusion	
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
[Cyst Epithelial Inclusion TGLS = 1-5.2]			
[Hyperkeratosis TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1131	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301131
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1132	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301132
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Trachea			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Marked
		Inflammation	Granulomatous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1132	TRT#: 19	SEX: Male	DAY ON TEST: 755
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301132
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 2-13]			
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
Urinary Bladder		Dilatation	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1133	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301133
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Moderate
[Pheochromocytoma Benign TGLS = 3-3]			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst Nephropathy	Chronic, Minimal
[Cyst TGLS = 4-2]			
Liver	Bile Duct	Eosinophilic Focus Hyperplasia Vacuolization Cytoplasmic	Minimal Minimal
Lymph Node, Mandibular		Hyperplasia Infiltration Cellular	Lymphoid, Mild Plasma Cell, Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Abscess	Marked
[Abscess TGLS = 2-6.2]	Parenchym Cell	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1133	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301133
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 2-6.2]			
Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration Seminoma Benign	Minimal
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1134

TRT#: 19

SEX: Male

DAY ON TEST: 755

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Vacuolization Cytoplasmic	Mild
Epididymis		Degeneration	Mild
		Hypospermia	Marked
		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-13]			
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1135	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301135
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Mammary Gland
Nose	Pituitary Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Brain	Cerebrum	Astrocytoma Malignant	
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Note: TGL # 04 - NO SECTION TAKEN			
Liver		Angiectasis	Mild
		Infiltration Cellular	Lymphocyte, Minimal
		Inflammation	Chronic Active, Mild
		Necrosis	Mild
[Angiectasis TGLS = 3-5.3]			
[Infiltration Cellular TGLS = 3-5.3]			
[Inflammation TGLS = 3-5.3]			
[Necrosis TGLS = 3-5.3]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1135	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301135
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Cyst	
		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked
		Necrosis	Moderate
[Inflammation TGLS = 1-5.2]			
[Necrosis TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Cyst	Squamous
		Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1136

TRT#: 19

SEX: Male

DAY ON TEST: 755

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Prostate	Prostate, Dorsal Lobe
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 1-3]			
Preputial Gland		Inflammation	Suppurative, Moderate
Thymus		Atrophy	Marked
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1137	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Marked
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Hyperplasia	Mild
Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1137	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301137
ORGAN AND ACCOUNTABLE SITE STATUS			
[Atrophy TGLS = 3-6.1]			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1138	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301138
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate, Ventral Lobe
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Rete Testes	Thymus
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OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Seminif Tub	Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1139	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
	Pelvis	Dilatation	Moderate
		Nephropathy	Chronic, Moderate
[Dilatation TGLS = 5-2]			
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 2-13]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1139	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301139
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 3-13.1]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1140	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Mammary Gland	Nose
Prostate, Ventral Lobe	Rete Testes	Seminal Vesicle	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea			

MISSING

Urinary Bladder

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1140	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301140
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Salivary Glands		Mineralization	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1141	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Mammary Gland	Nose	Parathyroid Gland
Rete Testes	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
Kidney		Nephropathy	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Salivary Glands		Hyperplasia	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1142	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Pituitary Gland			
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Medulla	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Lacrimal Gland		Ectopic Harderian	
[Ectopic Harderian TGLS = 1-13]			
Liver		Degeneration	Cystic, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1142	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301142
ORGAN AND ACCOUNTABLE SITE STATUS			
Sem Ves			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Tissue NOS		Sarcoma	
[Sarcoma TGLS = 4,5,6-13.1+13.2+13.3]			
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 04, 05 & 06 - Noted grossly as Cavity was Tissue NOS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1143

TRT#: 21

SEX: Male

DAY ON TEST: 756

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Rete Testes	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex	Bilateral	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 6-6.1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 3-13]			
[Hyperplasia TGLS = 3-13]			
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1143	TRT#: 21	SEX: Male	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301143
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 5-6.1]			
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1144

TRT#: 21

SEX: Male

DAY ON TEST: 755

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Marked
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Marked
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Seminal Vesicle		Hyperplasia	Marked
		Sarcoma	
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1145

TRT#: 21

SEX: Male

DAY ON TEST: 755

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Epididymis	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow		Histiocytic Sarcoma	
Coagulating Gland		Histiocytic Sarcoma	
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Histiocytic Sarcoma	
	Pelvis	Hyperplasia	Mild
		Hyperplasia	Tubular, Mild
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 5-2]			
[Nephropathy TGLS = 5-2]			
Liver		Histiocytic Sarcoma	
Note: TGL # 09 - NO SECTION TAKEN			
[Histiocytic Sarcoma TGLS = 2,3-5]			
Lung		Histiocytic Sarcoma	
Lymph Node	Lumbar	Histiocytic Sarcoma	
	Mediastinal	Histiocytic Sarcoma	
	Renal	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 7-13.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1145	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301145
ORGAN AND ACCOUNTABLE SITE STATUS			
[Histiocytic Sarcoma TGLS = 8-13]			
[Histiocytic Sarcoma TGLS = 6-13.1]			
Lymph Node, Mandibular		Histiocytic Sarcoma	
Lymph Node, Mesenteric		Histiocytic Sarcoma	
Pancreas	Acinar Cell	Degeneration	Moderate
		Histiocytic Sarcoma	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate, Dorsal Lobe		Histiocytic Sarcoma	
		Inflammation	Suppurative, Minimal
Seminal Vesicle		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 4-6.1]			
Spleen		Hematopoietic Cell Proliferation	Marked
		Histiocytic Sarcoma	
[Hematopoietic Cell Proliferation TGLS = 1-5]			
[Histiocytic Sarcoma TGLS = 1-5]			
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1146

TRT#: 21

SEX: Male

DAY ON TEST: 755

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Nose
Pancreas	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Lung	Artery	Mineralization	Minimal
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1147	TRT#: 21	SEX: Male	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Kidney	Pelvis	Mineralization	Mild
		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Fibrosis	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Prostate, Ventral Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1148

TRT#: 22

SEX: Male

DAY ON TEST: 755

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Coagulating Gland		Atrophy	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 4-13]			
[Pigmentation TGLS = 4-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 6-9.1]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 5-3]			
Preputial Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1148	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301148
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Marked
Seminal Vesicle		Inflammation	Suppurative, Mild
		Atrophy	Mild
		Dilatation	Mild
[Atrophy TGLS = 3-6.1]			
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hyperplasia	Stromal, Minimal
		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1149	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301149
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Nose	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
[Hepatocellular Adenoma TGLS = 3-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 4-3]			
Preputial Gland	Parenchym Cell	Degeneration	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 2-6.2]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1149	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301149
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Moderate
		Inflammation	Chronic, Marked
Rete Testes		Dilatation	Mild
Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 5-6.1]			
Skin		Inflammation	Suppurative, Marked
		Necrosis	Mild
[Inflammation TGLS = 1-5.2]			
[Necrosis TGLS = 1-5.2]			
Spleen		Hyperplasia	Lymphoid, Mild
Testes	Seminif Tub	Degeneration	Mild
		Polyarteritis	Mild
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1150

TRT#: 22

SEX: Male

DAY ON TEST: 755

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 2-12]			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1150	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301150
ORGAN AND ACCOUNTABLE SITE STATUS			
[Dilatation TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1151	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Marked
Heart	Pericardium	Hyperplasia	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-12]			
Mammary Gland		Degeneration	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Suppurative, Marked
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1152

TRT#: 22

SEX: Male

DAY ON TEST: 755

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

MISSING

Intestine Large, Rectum

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Moderate
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Int Lg Rectum			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Degeneration	Cystic, Minimal
Lung	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland		Fibroma	
[Fibroma TGLS = 1-5.2]			
Pancreas	Acinar Cell	Degeneration	Minimal
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Seminal Vesicle		Inflammation	Suppurative, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1152	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301152
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Hyperplasia	Stromal, Mild
Thymus		Degeneration	Minimal
Thyroid Gland	C Cell	Atrophy	Marked
		Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1153

TRT#: 22

SEX: Male

DAY ON TEST: 754

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Liver
Lymph Node, Mesenteric	Nose	Preputial Gland	Rete Testes
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain	Brain Stem	Compression	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
	Pelvis	Hyperplasia	Minimal
	Pelvis	Mineralization	Minimal
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Marked
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Marked
		Inflammation	Suppurative, Mild
Salivary Glands	Acinar Cell	Degeneration	Mild
Skin		Inflammation	Chronic, Minimal
[Inflammation TGLS = 2-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1153	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301153
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Marked
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1154	TRT#: 19	SEX: Male	DAY ON TEST: 756
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Bone, Cranium		Hyperostosis	Moderate
[Hyperostosis TGLS = 5-13]			
Eye	Bilateral, Retina	Atrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 3-12]			
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 4-13.1]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Marked
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1154	TRT#: 19	SEX: Male	DAY ON TEST: 756
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301154
ORGAN AND ACCOUNTABLE SITE STATUS			
[Degeneration TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 04 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1175	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 756 HISTO: 21320301175
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large, Colon		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 6-9.1]			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Angiectasis	Minimal
[Angiectasis TGLS = 3-5]			
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1175	TRT#: 19	SEX: Male	DAY ON TEST: 756
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301175
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Ventral Lobe		Degeneration	Minimal
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 4,5-5.2]			
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1176	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 756 HISTO: 21320301176
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Mild
Epididymis		Degeneration	Mild
		Hypospermia	Marked
[Degeneration TGLS = 6-6.3]			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
		Mineralization	Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Marked
[Dilatation TGLS = 3-6.2]			
[Inflammation TGLS = 3-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Salivary Glands	Acinar Cell	Degeneration	Minimal
		Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1176	TRT#: 19	SEX: Male	DAY ON TEST: 756
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301176
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Cyst Epithelial Inclusion Inflammation Keratoacanthoma	Suppurative, Marked
[Cyst Epithelial Inclusion TGLS = 2-5.2]			
[Inflammation TGLS = 1-5.2]			
[Keratoacanthoma TGLS = 2-5.2]			
Spleen		Sarcoma	
[Sarcoma TGLS = 4-5]			
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 5-13]			
Thymus	Epithel Cell	Hyperplasia Hyperplasia	Marked Lymphoid, Marked
[Hyperplasia TGLS = 7-1]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1177	TRT#: 19	SEX: Male	DAY ON TEST: 754
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node, Mandibular	Mammary Gland	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Accessory Adrenal Cortical Nodule	
Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3-3]			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 6-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 4-13.2]			
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Granulomatous, Mild
[Degeneration TGLS = 5-13]			
[Infiltration Cellular TGLS = 5-13]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1177	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301177
ORGAN AND ACCOUNTABLE SITE STATUS			
Preputial Gland	Pars Distalis Parenchym Cell	Hyperplasia Degeneration Infiltration Cellular Inflammation	Mild Mild Lymphocyte, Mild Suppurative, Mild
Prostate, Dorsal Lobe Note: TGL # 02 - No microscopic correlate			
Prostate, Ventral Lobe Note: TGL # 02 - No microscopic correlate		Hyperplasia	Minimal
Skin [Inflammation TGLS = 1-5.2] [Necrosis TGLS = 1-5.2]		Inflammation Necrosis	Suppurative, Marked Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 02 - Noted grossly as Mesentery was Prostate			
Animal Note: TGL # 05 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1178

TRT#: 19

SEX: Male

DAY ON TEST: 754

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Mammary Gland	Parathyroid Gland	Rete Testes	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Testes	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
[Hyperplasia TGLS = 3-9.1]			
[Inflammation TGLS = 3-9.1]			
Nose		Inflammation	Suppurative, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Seminal Vesicle		Atrophy	Moderate
Skin		Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1178	TRT#: 19	SEX: Male	DAY ON TEST: 754
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301178
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 2-5.2]			
[Hyperplasia TGLS = 2-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1179

TRT#: 19

SEX: Male

DAY ON TEST: 753

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Prostate, Dorsal Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Islets, Pancreatic

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla	Bilateral	Hyperplasia	Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Intestine Small, Duodenum		Adenocarcinoma	
[Adenocarcinoma TGLS = 9-9.2]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
[Cyst TGLS = 2,10-2]			
[Nephropathy TGLS = 2,10-2]			
Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lymph Node	Axillary	Hyperplasia	Lymphoid, Marked
	Axillary	Infiltration Cellular	Plasma Cell, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 8-13]			
[Infiltration Cellular TGLS = 8-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1179	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301179
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 4-13.1]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Minimal
		Inflammation	Suppurative, Marked
[Hyperkeratosis TGLS = 7-5.2]			
[Hyperplasia TGLS = 7-5.2]			
[Inflammation TGLS = 5-5.3]			
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 1-5]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1180	TRT#: 19	SEX: Male	DAY ON TEST: 753
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Hyperplasia	Minimal
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 3-2]			
Liver		Developmental Malformation	
		Eosinophilic Focus	
		Infiltration Cellular	Lymphocyte, Minimal
[Developmental Malformation TGLS = 2-5]			
Lung	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
		Metaplasia	Osseous, Minimal
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Preputial Gland		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:55

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1180	TRT#: 19	SEX: Male	DAY ON TEST: 753
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301180
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Seminal Vesicle		Degeneration	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:55
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1181	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301181
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Liver
Nose	Parathyroid Gland	Preputial Gland	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus			
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OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
	Atrium	Dilatation	Marked
[Dilatation TGLS = 4-1]			
Intestine Large, Colon		Adenocarcinoma	
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 6-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Renal	Degeneration	Cystic, Marked
[Degeneration TGLS = 3-13]			
[Degeneration TGLS = 2-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Minimal
Pancreas	Acinar Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1181	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301181
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
Skin [Inflammation TGLS = 1-5.2]		Inflammation	Suppurative, Marked
Testes	Seminif Tub	Degeneration	Moderate
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1182	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301182
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular
Lymph Node, Mesenteric	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Cyst	
		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
[Cyst TGLS = 2-3]			
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Minimal
[Hemorrhage TGLS = 4-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Mammary Gland		Degeneration	Marked
Nose		Hyperkeratosis	Mild
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1182	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301182
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1183	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Coagulating Gland		Developmental Malformation	
Intestine Large, Rectum		Polyarteritis	Marked
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 4,5-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Moderate
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Mild
[Degeneration TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen	Capsule	Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1183	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301183
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibrosis TGLS = 3-5] [Hematopoietic Cell Proliferation TGLS = 3-5] [Pigmentation TGLS = 3-5]		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland		Cyst	Squamous
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1184

TRT#: 20

SEX: Male

DAY ON TEST: 754

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Mammary Gland	Nose	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Epididymis		Degeneration	Moderate
		Hypospermia	Marked
Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Liver		Inflammation	Chronic Active, Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
Rete Testes		Dilatation	Mild
Testes	Seminif Tub	Degeneration	Marked
		Polyarteritis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1184	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301184
ORGAN AND ACCOUNTABLE SITE STATUS			
[Polyarteritis TGLS = 2-7]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1185	TRT#: 21	SEX: Male	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Prostate	Prostate, Dorsal Lobe	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Degeneration	Cystic, Moderate
		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 3-2]			
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Marked
Preputial Gland	Parenchym Cell	Degeneration	Moderate
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 1-6.2]			
[Inflammation TGLS = 1-6.2]			
Seminal Vesicle		Adenoma	
		Hyperplasia	Marked
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5]			
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1185	TRT#: 21	SEX: Male	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301185

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1186	TRT#: 21 DOSE: F3 100PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301186
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Minimal
		Eosinophilic Focus	Multiple
[Angiectasis TGLS = 2-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Marked
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1187	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Coagulating Gland	Epididymis
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Brain	Cerebrum	Hydrocephalus	Mild
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1187	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301187
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1188	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Trachea	

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Suppurative, Moderate
[Dilatation TGLS = 1,2-6.2]			
[Inflammation TGLS = 1,2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1188	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301188
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 4-5.2]			
Thyroid Gland		Cyst	Squamous
Urinary Bladder		Dilatation	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1189	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301189
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Hyperplasia	Minimal
Islets, Pancreatic		Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 1-12]			
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate, Dorsal Lobe		Adenocarcinoma	
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1190

TRT#: 22

SEX: Male

DAY ON TEST: 755

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Lymph Node, Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Small, Jejunum

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Adrenal Medulla		Hyperplasia	Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 5-2]			
Liver	Capsule	Hyperplasia	Minimal
[Hyperplasia TGLS = 9-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: PATHOLOGIST NOTED: BLOCK 10A(10.1) WAS ADDED DUE TO OVERCROWDING IN THE NORMAL LUNG BLOCK (10)			
[Infiltration Cellular TGLS = 10-10.1+10.2]			
Lymph Node	Renal	Degeneration	Cystic, Marked
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
	Renal	Infiltration Cellular	Plasma Cell, Moderate
[Degeneration TGLS = 7-13]			
[Hyperplasia TGLS = 8-13.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1190	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301190
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 8-13.1]			
[Infiltration Cellular TGLS = 7-13]			
Lymph Node, Mandibular		Hyperplasia Infiltration Cellular	Lymphoid, Mild Plasma Cell, Moderate
[Hyperplasia TGLS = 3-12]			
[Infiltration Cellular TGLS = 3-12]			
Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 4-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.3]			
[Inflammation TGLS = 1-5.2]			
Testes	Seminif Tub	Degeneration	Moderate
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1191	TRT#: 22	SEX: Male	DAY ON TEST: 755
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Mammary Gland	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Spleen
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Dilatation	Marked
	Biliar Tract	Fibrosis	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Marked
		Inflammation	Suppurative, Marked
[Degeneration TGLS = 2-6.2]			
[Dilatation TGLS = 2-6.2]			
[Inflammation TGLS = 2-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-5.2]			
Stomach, Forestomach		Keratin Cyst	
[Keratin Cyst TGLS = 3-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1191	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301191
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1192	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301192
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Nose	Parathyroid Gland
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Inflammation	Granulomatous, Moderate
[Hyperplasia TGLS = 3-9.1]			
[Inflammation TGLS = 3-9.1]			
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
		Inflammation	Chronic Active, Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Marked
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1192	TRT#: 22	SEX: Male	DAY ON TEST: 753
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301192
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-5.2]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
		Polyarteritis	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1193	TRT#: 22	SEX: Male	DAY ON TEST: 752
	DOSE: F3 500PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Nose
Parathyroid Gland	Rete Testes	Salivary Glands	Seminal Vesicle
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea			

OBSERVATIONS

Eye	Bilateral, Retina	Atrophy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Liver	Biliar Tract	Fibrosis	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 1-13]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
		Infiltration Cellular	Plasma Cell, Marked
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Mild
Skin		Cyst Epithelial Inclusion	
		Inflammation	Suppurative, Marked
[Cyst Epithelial Inclusion TGLS = 4-5.3]			
[Inflammation TGLS = 2-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1193	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301193
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Moderate
Urinary Bladder		Dilatation	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1199	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301199
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla	Bilateral	Hyperplasia	Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Cyst	Multiple
	Pars Distalis	Hyperplasia	Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hyperplasia	Lymphoid, Minimal
		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1200	TRT#: 19	SEX: Male	DAY ON TEST: 754
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Mammary Gland
Nose	Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes
Salivary Glands	Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 2-3]			
Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
	Lumbar	Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 4-13]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Minimal
Prostate, Dorsal Lobe		Cyst	
		Inflammation	Suppurative, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1200	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301200
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Moderate
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1201

TRT#: 20

SEX: Male

DAY ON TEST: 755

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Coagulating Gland	Epididymis	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Pituitary Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Medulla

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
	Myeloid Cell	Hyperplasia	Minimal
Eye	Cornea	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Mammary Gland		Degeneration	Mild
		Fibrosis	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Degeneration	Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 3-5.2]			
Spleen		Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1201	TRT#: 20	SEX: Male	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301201
ORGAN AND ACCOUNTABLE SITE STATUS			
[Sarcoma TGLS = 2-5]			
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1202

TRT#: 20

SEX: Male

DAY ON TEST: 754

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Preputial Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Chronic, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1203

TRT#: 20

SEX: Male

DAY ON TEST: 754

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lymph Node, Mandibular
Lymph Node, Mesenteric	Nose	Parathyroid Gland	Prostate, Ventral Lobe
Rete Testes	Salivary Glands	Seminal Vesicle	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Renal	Degeneration	Cystic, Marked
	Renal	Infiltration Cellular	Plasma Cell, Moderate
	Renal	Inflammation	Suppurative, Mild
	Renal	Necrosis	Mild
[Degeneration TGLS = 2-13]			
[Infiltration Cellular TGLS = 2-13]			
[Inflammation TGLS = 2-13]			
[Necrosis TGLS = 2-13]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Preputial Gland		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1203	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301203
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1204	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Mammary Gland		Degeneration	Mild
Nose		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 5-11]			
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Preputial Gland	Duct	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
[Dilatation TGLS = 2-6.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1204	TRT#: 20	SEX: Male	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301204
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Testes	Interstit Cell	Adenoma	
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1205	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mandibular
Nose	Prostate, Ventral Lobe	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Harderian Gland		Degeneration	Minimal
Islets, Pancreatic		Hyperplasia	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 1-2]			
Liver		Angiectasis	Marked
[Angiectasis TGLS = 3-5]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Degeneration	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland	Bilateral	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
[Cyst TGLS = 2-3]			
[Hyperplasia TGLS = 2-3]			
Preputial Gland		Inflammation	Suppurative, Moderate
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate
Rete Testes		Dilatation	Mild
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1205	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301205
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1206

TRT#: 20

SEX: Male

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 1-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Marked
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Suppurative, Mild
Prostate, Dorsal Lobe		Cyst	
		Inflammation	Suppurative, Mild
Prostate, Ventral Lobe		Hyperplasia	Moderate
Spleen		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Minimal
Thymus		Atrophy	Moderate
Thyroid Gland		Cyst	Squamous

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1207

TRT#: 20

SEX: Male

DAY ON TEST: 750

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2-2]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
[Hyperplasia TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Moderate
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Spleen	Capsule	Degeneration	Cystic, Mild
[Degeneration TGLS = 3-5]			
Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1208	TRT#: 20 DOSE: F3 5PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320301208
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Lymph Node, Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Coagulating Gland		Developmental Malformation	
[Developmental Malformation TGLS = 3-6.1]			
Epididymis		Degeneration	Moderate
		Hypospermia	Marked
		Infiltration Cellular	Lymphocyte, Minimal
[Degeneration TGLS = 2-6.3]			
[Hypospermia TGLS = 2-6.3]			
[Infiltration Cellular TGLS = 2-6.3]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 4-2]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1208	TRT#: 20	SEX: Male	DAY ON TEST: 750
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301208
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Testes	Seminif Tub	Degeneration	Marked
[Degeneration TGLS = 1-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1209	TRT#: 19 DOSE: F3 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301209
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		
OBSERVATIONS			
Adrenal Medulla		Hyperplasia	Mild
Epididymis		Degeneration	Mild
		Hypospermia	Marked
Intestine Small, Duodenum		Adenocarcinoma	
[Adenocarcinoma TGLS = 4-9]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 2-2]			
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Minimal
[Hyperplasia TGLS = 3-10]			
[Infiltration Cellular TGLS = 3-10]			
[Metaplasia TGLS = 3-10]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Plasma Cell, Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Duct	Dilatation	Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1209	TRT#: 19	SEX: Male	DAY ON TEST: 755
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301209
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Testes	Seminif Tub	Degeneration	Marked
		Polyarteritis	Moderate
[Degeneration TGLS = 5-13]			
Thymus		Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1210

TRT#: 22

SEX: Male

DAY ON TEST: 753

DOSE: F3 500PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Rete Testes	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Medulla		Hyperplasia	Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Mild
	Myeloid Cell	Hyperplasia	Mild
Harderian Gland		Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Intestine Small, Jejunum		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-9.1]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 2,3-2]			
Liver		Degeneration	Cystic, Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Degeneration TGLS = 5-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Minimal
[Infiltration Cellular TGLS = 4-10+10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Moderate
		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1210	TRT#: 22 DOSE: F3 500PPM TO CTL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301210
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland	Parenchym Cell	Degeneration	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Prostate, Dorsal Lobe		Inflammation	Suppurative, Minimal
Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Seminif Tub	Degeneration	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1211	TRT#: 21	SEX: Male	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Lung
Lymph Node, Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Prostate, Ventral Lobe	Rete Testes	Salivary Glands	Seminal Vesicle
Skin	Stomach, Forestomach	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Eye	Bilateral, Retina	Atrophy	Mild
Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 3-13.1]			
Kidney		Nephropathy	Chronic, Minimal
Lym Node Mesen			
Note: TGL # 03 - NOTED GROSSLY AS LYMPH NODE, MESENTERIC WAS ISLETS PANCREAS			
Lymph Node	Renal	Degeneration	Cystic, Marked
[Degeneration TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-6.2]			
Prostate, Dorsal Lobe		Inflammation	Suppurative, Mild
Spleen		Pigmentation	Mild
Thymus		Atrophy	Moderate
	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1212

TRT#: 20

SEX: Male

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Coagulating Gland	Epididymis
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Lymph Node, Mesenteric	Nose
Parathyroid Gland	Prostate, Ventral Lobe	Rete Testes	Salivary Glands
Seminal Vesicle	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Adrenal Medulla		Hyperplasia	Moderate
Eye	Bilateral, Retina	Atrophy	Minimal
Heart		Cardiomyopathy	Mild
		Metaplasia	Osseous, Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Minimal
[Cyst TGLS = 3-2]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Marked
[Degeneration TGLS = 1-12]			
[Infiltration Cellular TGLS = 1-12]			
Mammary Gland		Degeneration	Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland	Parenchym Cell	Degeneration	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Prostate, Dorsal Lobe		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1212	TRT#: 20	SEX: Male	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301212
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Epidermis	Hyperkeratosis	Moderate
		Hyperplasia	Moderate
		Inflammation	Suppurative, Moderate
[Hyperkeratosis TGLS = 4-5]			
[Hyperplasia TGLS = 4-5]			
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Mild
Testes	Seminif Tub	Degeneration	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 15	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 46 HISTO: 21320300015
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	Oviduct
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	Vagina
MISSING			
* Adrenal Medulla	* Clitoral Gland	* Harderian Gland	* Mammary Gland
* Parathyroid Gland	* Urinary Bladder		
OBSERVATIONS			
* Adren Medulla			
Note: PATHOLOGIST NOTED: TISSUE TOO THIN			
* Clitoral GI			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
* Harderian GI			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
* Kidney		Hydronephrosis	Mild
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 18	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 111 HISTO: 21320300018
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Nose
Ovary	Oviduct	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart [Dilatation TGLS = 2-1]	Atrium Rgt	Dilatation	Moderate
Kidney	Renal Tubule	Mineralization	Mild
Liver		Congestion	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
Uterus [Hyperplasia TGLS = 1-6.1]		Hyperplasia	Cystic, Mild
Vagina		Inflammation	Mild

PRIMARY CAUSE OF DEATH - Heart Atrium Rgt Dilatation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 40	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 224 HISTO: 21320300040
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Clitoral Gland	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Mammary Gland
Nose	Ovary	Oviduct	Pancreas
Pituitary Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Parathyroid Gland

OBSERVATIONS

Adren Cortex Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Adren Medulla Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Esophagus Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Int Sm Ileum Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Int Sm Jejunum Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Kidney	Renal Tubule	Mineralization	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Polyarteritis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Parathyroid GI Note: PATHOLOGIST NOTED: CUT AWAY			
Skin [Sarcoma TGLS = 1-13]		Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 40	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 224 HISTO: 21320300040
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen [Hematopoietic Cell Proliferation TGLS = 2-5]		Hematopoietic Cell Proliferation	Moderate
Thyroid GI Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Trachea Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
PRIMARY CAUSE OF DEATH - Skin Sarcoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 51	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 268 HISTO: 21320300051
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Angiectasis	Mild
Int Lg Colon			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Kidney	Renal Tubule	Mineralization	Mild
PRIMARY CAUSE OF DEATH			
- UNCERTAIN			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 56	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 325 HISTO: 21320300056
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Mammary Gland	Ovary	Oviduct	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Nose		Inflammation	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Spleen	Lymphocyte	Atrophy	Moderate
		Pigmentation	Moderate
Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH	- UNCERTAIN
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 57	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 330 HISTO: 21320300057
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Mammary Gland	Nose
Ovary	Oviduct	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		
OBSERVATIONS			
Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Angiectasis	Minimal
		Infarct	Moderate
[Infarct TGLS = 2-3.1]			
Kidney	Renal Tubule	Mineralization	Mild
		Nephroblastoma	
[Nephroblastoma TGLS = 1-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hemorrhage	Minimal
		Inflammation	Granulomatous, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 3-5]			
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephroblastoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 58	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 331 HISTO: 21320300058
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Clitoral Gland	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Nose	Ovary	Oviduct	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adren Cortex
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)

Adren Medulla
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)

Blood Vessel
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 1A(1.1)

Esophagus
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)

Int Sm Ileum
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9

Int Sm Jejunum
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9

Kidney
Renal Tubule

Lymph Node, Mesenteric

Mammary Gland
[Fibroadenoma TGLS = 1-13]

Parathyroid Gl
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)

Skin

Mineralization	Minimal
Inflammation	Granulomatous, Mild
Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 58	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 331 HISTO: 21320300058
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Thyroid GI			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Trachea			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma			
Animal Note: Pathologist noted: Located on slide # 9 (Intestine Large, rectum)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 60	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 345 HISTO: 21320300060
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Liver	Lung	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Uterus		
OBSERVATIONS			
Adrenal Cortex		Angiectasis	Minimal
Brain	Brain Stem	Compression	Moderate
Eye			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Nose	Nasolacrim Dct	Inflammation	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen		Pigmentation	Mild
Thyroid Gland		Cyst	Squamous, Minimal
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 62	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 359 HISTO: 21320300062
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Liver	Lung	Lymph Node, Mandibular	Mammary Gland
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 2-13]			
Spleen		Pigmentation	Mild
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 66	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 367 HISTO: 21320300066
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	
OBSERVATIONS			
Adren Medulla			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Adrenal Cortex		Degeneration	Cystic, Minimal
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Clitoral Gl			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 6A(6.1)			
Esophagus			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Int Sm Ileum			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Int Sm Jejunum			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 1-13]			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gl			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 66	TRT#: 1	SEX: Female	DAY ON TEST: 367
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300066
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: LCOATED ON SLIDE # 3A(3.1)			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-5]			
Thyroid Gt			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Trachea			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 3A(3.1)			
Vagina		Keratin Cyst	Mild
[Keratin Cyst TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Adenocarcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 67	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 324 HISTO: 21320300067
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Nose	Oviduct
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Clitoral Gland		Inflammation	Mild
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Developmental Malformation	
		Hepatodiaphragmatic Nodule	
[Developmental Malformation TGLS = 2-5]			
[Hepatodiaphragmatic Nodule TGLS = 3-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-13]			
Ovary		Atrophy	Mild
		Cyst	
PRIMARY CAUSE OF DEATH	- Mammary Gland Adenocarcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 68	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 376 HISTO: 21320300068
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mandibular	Nose	Oviduct
Pancreas	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Vagina	
MISSING			
Clitoral Gland			
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Minimal
Clitoral Gl			
Note: PATHOLOGIST NOTED: OBSCURED BY MASS			
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
Ovary		Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Diffuse, Mild
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 91	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 401 HISTO: 21320300091
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Uterus
OBSERVATIONS			
Adrenal Cortex		Angiectasis	Mild
Adrenal Medulla		Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Epithelium, Pelvis	Hyperplasia	Mild
		Inflammation	Mild
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 1-2]			
[Inflammation TGLS = 2-2]			
Liver		Hematopoietic Cell Proliferation	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Cyst	
[Cyst TGLS = 4-6]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland		Cyst	Squamous, Mild
Urinary Bladder		Hyperplasia	Moderate
		Inflammation	Minimal
[Hyperplasia TGLS = 3-2]			
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Inflammation		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 93	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 408 HISTO: 21320300093
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Esophagus	Intestine Large, Cecum	Intestine Large, Rectum	Skin
Stomach, Forestomach	Stomach, Glandular		
MISSING			
Parathyroid Gland			
AUTO PRECLUDES DIAG.			
Bone Marrow	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Pancreas	Vagina	
OBSERVATIONS			
Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3.1]			
Adrenal Medulla		Leukemia Mononuclear	
Brain	Cerebrum	Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Eye	Lens	Cataract	Moderate
		Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
Intestine Large, Colon		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
	Renal Tubule	Mineralization	Minimal
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
Lung		Leukemia Mononuclear	
Lymph Node, Mandibular		Leukemia Mononuclear	
Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-9.1]			
Mammary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5.1]			
Nose		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 93	TRT#: 4	SEX: Female	DAY ON TEST: 408
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300093
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Leukemia Mononuclear	
Oviduct		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5.2]			
Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
Thyroid Gland		Leukemia Mononuclear	
Trachea		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 94	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 410 HISTO: 21320300094
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Liver	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Minimal Minimal
[Degeneration TGLS = 4-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6,7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Cyst	
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin		Fibroma	
[Fibroma TGLS = 1-5.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Metaplasia	Mild
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Skin Fibroma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 95	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 375 HISTO: 21320300095
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebrum
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Islets, Pancreatic	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach			

MISSING

Thymus	Vagina
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OBSERVATIONS

Adrenal Cortex		Leukemia Mononuclear	
Adrenal Medulla		Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain	Cerebellum	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-8]			
Clitoral Gland		Leukemia Mononuclear	
Intestine Small, Duodenum		Leukemia Mononuclear	
Intestine Small, Ileum		Leukemia Mononuclear	
Intestine Small, Jejunum		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
	Renal Tubule	Mineralization	Minimal
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: PATHOLOGIST NOTED: LEUKEMIA MONONUC IN LYMPH NODE, MEDIASTINAL ALSO ON		SLIDE # 1	
[Leukemia Mononuclear TGLS = 5-13.1]			
[Leukemia Mononuclear TGLS = 6-13.2]			
[Leukemia Mononuclear TGLS = 3-13]			
Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 95	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 375 HISTO: 21320300095
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 4-9.1]		Leukemia Mononuclear	
Mammary Gland		Leukemia Mononuclear	
Nose		Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Oviduct		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin		Leukemia Mononuclear	
Spleen [Leukemia Mononuclear TGLS = 2-5.1]		Leukemia Mononuclear	
Stomach, Glandular		Leukemia Mononuclear	
Thyroid Gland		Cyst	Squamous, Minimal
		Leukemia Mononuclear	
Trachea		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	
Vagina		Leukemia Mononuclear	
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 96	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 418 HISTO: 21320300096
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Eye			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: PATHOLOGIST NOTED: TGL # 1 ALSO LOCATED ON SLIDE # 8			
[Adenoma TGLS = 1-3,8]			
Spleen		Pigmentation	Minimal
Uterus		Metaplasia	Mild
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 97	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 423 HISTO: 21320300097
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mesenteric	Nose	Oviduct
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Mild
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.1]			
Ovary		Atrophy	Mild
Skin			
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Uterus		Metaplasia	Mild
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			

PRIMARY CAUSE OF DEATH	- Mammary Gland	Fibroadenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 98	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 425 HISTO: 21320300098
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
MISSING			
Intestine Small, Duodenum			
OBSERVATIONS			
Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 3-2]			
Liver		Cholangioma	
		Clear Cell Focus	
[Cholangioma TGLS = 1-5.1]			
Lymph Node, Mandibular		Hemorrhage	Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen		Pigmentation	Mild
Thymus		Hemorrhage	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 101	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 436 HISTO: 21320300101
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Brain - Brain Stem	Brain - Cerebellum
Esophagus	Intestine Small, Jejunum	Islets, Pancreatic	Oviduct
Skin	Stomach, Glandular	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 12-3]			
Bone Marrow		Leukemia Granulocytic	
Bone, Femur		Hyperostosis	Mild
Brain	Cerebrum	Leukemia Granulocytic	
Clitoral Gland	Parenchym Cell	Degeneration	Minimal
		Leukemia Granulocytic	
[Degeneration TGLS = 1-6.1]			
Heart		Leukemia Granulocytic	
Intestine Large, Cecum		Leukemia Granulocytic	
Intestine Large, Colon		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 11-9]			
Intestine Small, Duodenum		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 10-9]			
Intestine Small, Ileum		Leukemia Granulocytic	
Kidney		Accumulation, Hyaline Droplet	Moderate
	Renal Tubule	Leukemia Granulocytic	
		Mineralization	Mild
[Leukemia Granulocytic TGLS = 3-2+2.1]			
Liver		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 4-5.1]			
Lung		Leukemia Granulocytic	
Lymph Node	Lumbar	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 7-13]			
Lymph Node, Mandibular		Leukemia Granulocytic	
Lymph Node, Mesenteric		Leukemia Granulocytic	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 101

TRT#: 1

SEX: Female

DAY ON TEST: 436

DOSE: F1 0 PPM

DISP: Natural Death

HISTO: 21320300101

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Granulocytic TGLS = 9-9.1]

Mammary Gland

Leukemia Granulocytic

Nose

Leukemia Granulocytic

Ovary

Leukemia Granulocytic

Pancreas

Leukemia Granulocytic

Parathyroid Gland

Leukemia Granulocytic

Pituitary Gland

Leukemia Granulocytic

[Leukemia Granulocytic TGLS = 5-3]

Salivary Glands

Leukemia Granulocytic

Spleen

Leukemia Granulocytic

[Leukemia Granulocytic TGLS = 2-5]

Stomach, Forestomach

Leukemia Granulocytic

Thymus

Leukemia Granulocytic

[Leukemia Granulocytic TGLS = 6-1]

Thyroid Gland

Leukemia Granulocytic

Trachea

Leukemia Granulocytic

Urin Bladder

Note: TGL # 08 - NO MICROSCOPIC CORRELATE

Uterus

Leukemia Granulocytic

Vagina

Leukemia Granulocytic

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Granulocytic

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 102	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 439 HISTO: 21320300102
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Esophagus	Intestine Large, Colon	Intestine Small, Duodenum
Islets, Pancreatic	Mammary Gland	Oviduct	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
AUTO PRECLUDES DIAG.			
Intestine Large, Cecum	Intestine Small, Ileum	Intestine Small, Jejunum	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Bone Marrow		Histiocytic Sarcoma	
Brain	Cerebrum	Histiocytic Sarcoma	
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 4-6.1]			
Heart		Histiocytic Sarcoma	
Kidney	Renal Tubule	Mineralization	Mild
Liver		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 1-5.1]			
Lung		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 5-10]			
Lymph Node, Mandibular		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 6-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Nose		Histiocytic Sarcoma	
Ovary		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 3-6]			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-5]			
Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 102	TRT#: 5	SEX: Female	DAY ON TEST: 439
	DOSE: F1 5PPM/CTL	DISP: Natural Death	HISTO: 21320300102
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	- Liver Histiocytic Sarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 114

TRT#: 5

SEX: Female

DAY ON TEST: 451

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Clitoral Gland	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Minimal
	Cerebrum	Hydrocephalus	Minimal
[Compression TGLS = 2-8]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Thymus		Atrophy	Mild
Vagina		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 118

TRT#: 3

SEX: Female

DAY ON TEST: 465

DOSE: F1 100PPM

DISP: Moribund

HISTO: 21320300118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal Medulla

Blood Vessel

Bone Marrow

Bone, Femur

Brain - Brain Stem

Brain - Cerebellum

Brain - Cerebrum

Clitoral Gland

Esophagus

Heart

Intestine Large, Cecum

Intestine Large, Colon

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum

Islets, Pancreatic

Kidney

Liver

Lung

Lymph Node, Mandibular

Nose

Ovary

Oviduct

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach, Forestomach

Stomach, Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

Vagina

OBSERVATIONS

Lymph Node, Mesenteric

Inflammation

Granulomatous, Minimal

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-5.1]

Pancreas

Acinar Cell

Degeneration

Minimal

Skin

Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 122

TRT#: 7

SEX: Female

DAY ON TEST: 507

DOSE: F1 500PPM/CTL

DISP: Moribund

HISTO: 21320300122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Nose	Oviduct	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
Clitoral Gland		Inflammation	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 3-5.1]			
Ovary		Cyst	
[Cyst TGLS = 2-6]			
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Skin			
Note: TGL # 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Thyroid Gland	Follicular Cell	Atrophy	Mild
Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 122	TRT#: 7	SEX: Female	DAY ON TEST: 507
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300122
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hypertrophy TGLS = 1-6.1]	Cervix, Muscularis	Hypertrophy	
Vagina		Sarcoma Stromal	
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 124	TRT#: 3	SEX: Female	DAY ON TEST: 486
	DOSE: F1 100PPM	DISP: Natural Death	HISTO: 21320300124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 5 ON SLIDE # 10A(10.1)			
[Infiltration Cellular TGLS = 5-10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 6-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Nose		Inflammation	Minimal
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 1-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin		Lipoma	
[Lipoma TGLS = 3-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 124	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 486 HISTO: 21320300124
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Uterus		Angiectasis	Minimal
		Metaplasia	Minimal
[Angiectasis TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 125	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 512 HISTO: 21320300125
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
[Degeneration TGLS = 2-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Heart		Inflammation	Mild
Kidney	Renal Tubule	Mineralization	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Lactation	Mild
[Lactation TGLS = 1-5]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Spleen		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 127

TRT#: 1

SEX: Female

DAY ON TEST: 514

DOSE: F1 0 PPM

DISP: Moribund

HISTO: 21320300127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Oviduct	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hematopoietic Cell Proliferation	Mild
Clitoral Gl			
Note: PATHOLOGIST NOTED: OBSCURED BY MAMMARY TUMOR			
Note: TGL # 01 - NOTED GROSSLY AS CLITORAL GLAND WAS MAMMARY GLAND			
Islets Panc			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 5A(5.1)			
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-6.2]			
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 5A(5.1)			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-5.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 127	TRT#: 1	SEX: Female	DAY ON TEST: 514
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300127

ORGAN AND ACCOUNTABLE SITE STATUS

Vagina

Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 6A(6.1)

PRIMARY CAUSE OF DEATH	- Mammary Gland	Adenocarcinoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 128	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 514 HISTO: 21320300128
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Nose	Oviduct	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
MISSING			
Clitoral Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Marked
[Degeneration TGLS = 4-3]			
Clitoral Gl			
Note: PATHOLOGIST NOTED: OBSCURED BY MAMMARY GLAND TUMOR			
Note: TGL # 06 - NOTED GROSSLY AS CLITORAL GLAND WAS MAMMARY GLAND			
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,6-5+6.2]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 5-5.3]			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 3-5.2]			
Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 128	TRT#: 1	SEX: Female	DAY ON TEST: 514
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300128

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 129

TRT#: 7

SEX: Female

DAY ON TEST: 517

DOSE: F1 500PPM/CTL

DISP: Natural Death

HISTO: 21320300129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Clitoral Gland		Inflammation	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Nose		Inflammation	Minimal
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 2-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 3-5.1]			
Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 130	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 520 HISTO: 21320300130
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Thyroid Gland
Trachea	Urinary Bladder	Uterus	
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 1-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Kidney	Renal Tubule	Mineralization	Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 3-5.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 8-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 4-5]			
Ovary		Lactation	Mild
[Cyst TGLS = 6-6]			
Pituitary Gland	Pars Distalis	Atrophy	Mild
[Adenoma TGLS = 5-3]			
Skin		Cyst	
		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 130	TRT#: 3	SEX: Female	DAY ON TEST: 520
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300130
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 04 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Mild
Stomach, Glandular		Erosion	Minimal
Thymus			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 131	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 520 HISTO: 21320300131
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Bone, Tibia		Malformation	
[Malformation TGLS = 2-13]			
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 4-8]			
Clitoral Gland		Inflammation	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 3-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 528

DOSE: F1 5PPM

DISP: Moribund

HISTO: 21320300134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

MISSING

Adrenal Medulla

OBSERVATIONS

Adren Medulla

Note: PATHOLOGIST NOTED: RECUT ATTEMPTED

Adrenal Cortex

Heart		Adenoma	
Kidney	Pelvis	Degeneration	Cystic, Mild
Liver		Hyperplasia	Mild
Lung		Cardiomyopathy	Minimal
[Infiltration Cellular TGLS = 2-10]		Mineralization	Minimal
Lymph Node, Mandibular		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mammary Gland			
[Fibroadenoma TGLS = 1-5.2]			
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin			

Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 134	TRT#: 2	SEX: Female	DAY ON TEST: 528
	DOSE: F1 5PPM	DISP: Moribund	HISTO: 21320300134

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 135

TRT#: 15

SEX: Female

DAY ON TEST: 489

DOSE: F3 0 PPM

DISP: Natural Death

HISTO: 21320300135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Liver
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
Oviduct	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	Uterus	Vagina	

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gl			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Mineralization	Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Ovary		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
		Sarcoma	
[Sarcoma TGLS = 2-1]			
* Thyroid Gland		Cyst	Squamous, Mild

PRIMARY CAUSE OF DEATH

- Thymus Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 136	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 534 HISTO: 21320300136
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Ileum	Islets, Pancreatic
Kidney	Liver	Lung	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

AUTO PRECLUDES DIAG.

Intestine Small, Duodenum	Intestine Small, Jejunum
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 2-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 4-9]			
Mammary Gland		Lactation	Mild
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Spleen	Lymphocyte	Atrophy	Moderate
		Pigmentation	Mild
Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 137	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 538 HISTO: 21320300137
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Small, Duodenum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

MISSING

Intestine Large, Colon			
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AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum		
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 8-8]			
Eye			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Int Lg Colon			
Note: PATHOLOGIST NOTED: TISSUE ROTTEN			
Kidney		Cyst	
		Inflammation	Mild
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 7-2]			
Lymph Node, Mandibular		Hemorrhage	Mild
		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 10-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 9-9]			
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 137	TRT#: 6	SEX: Female	DAY ON TEST: 538
	DOSE: F1 100PPM/CTL	DISP: Natural Death	HISTO: 21320300137
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 1,4-5.2+5.3]			
Ovary		Atrophy	Mild
Pancreas			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin			
Note: TGL # 05 - NO SECTION TAKEN			
Note: TGL # 01 & 04 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Mild
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			
Animal Note: Pathologist noted: Normal Lymph Node located on slide #5A			

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 140

TRT#: 15

SEX: Female

DAY ON TEST: 486

DOSE: F3 0 PPM

DISP: Moribund

HISTO: 21320300140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Inflammation	Chronic Active, Moderate
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin	Foot	Inflammation	Chronic, Marked
		Squamous Cell Carcinoma	

Note: PATHOLOGIST NOTED: SQUAM CEL CARC EXTENDS FROM THE FACE TO THE ORAL CAVITY

[Inflammation TGLS = 2,3-5.2+5.3]

[Squamous Cell Carcinoma TGLS = 1,4-5.1+13]

Thymus		Cyst	Minimal
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PRIMARY CAUSE OF DEATH - Skin Squamous Cell Carcinoma

Animal Note: TGL # 04 - Noted grossly as Tissue NOS, Tooth was Skin

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 141	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Natural Death	DAY ON TEST: 494 HISTO: 21320300141
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	Oviduct	* Pancreas	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Clitoral Gland		Inflammation	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Mineralization	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Mammary Gland		Lactation	Minimal
* Nose	Nasolacrim Dct	Inflammation	Mild
* Ovary		Atrophy	Mild
* Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2,3-5.2]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 142

TRT#: 18

SEX: Female

DAY ON TEST: 495

DOSE: F3 500PPM TOCTL

DISP: Natural Death

HISTO: 21320300142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Nose
Oviduct	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Brain	Cerebrum	Carcinoma	Metastatic (Pituitary Gland)
	Brain Stem	Compression	Mild
	Cerebrum	Hydrocephalus	Minimal
[Hydrocephalus TGLS = 2-8]			
* Clitoral Gland	Parenchym Cell	Degeneration	Minimal
* Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 3-12]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Mammary Gland		Lactation	Minimal
* Ovary		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Cyst	Minimal
		Hemorrhage	Mild
* Thyroid Gland		Cyst	Squamous, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 143

TRT#: 16

SEX: Female

DAY ON TEST: 496

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	Bone, Femur	* Brain - Cerebellum
* Brain - Cerebrum	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Nose	Oviduct	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

MISSING

* Adrenal Medulla

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 3-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
* Mammary Gland		Atypical Focus	
		Galactoceles	Mild
		Lactation	Minimal
[Galactoceles TGLS = 1-5.1]			
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
Note: PATHOLOGIST NOTED: TGL # 2 ALSO LOCATED ON SLIDE # 8			
[Adenoma TGLS = 2-3+8]			
* Spleen		Pigmentation	Minimal
* Thymus		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 143	TRT#: 16	SEX: Female	DAY ON TEST: 496
	DOSE: F3 5PPM TO CTL	DISP: Natural Death	HISTO: 21320300143
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thyroid Gland		Cyst	Squamous, Minimal
* Uterus		Metaplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 145	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 540 HISTO: 21320300145
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Lung	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

AUTO PRECLUDES DIAG.

Intestine Small, Ileum

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 13-8]			
Heart		Cardiomyopathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 6-5.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 7-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 12-9]			
Mammary Gland		Atypical Focus	
		Galactoceles	Mild
		Lactation	Mild
[Galactoceles TGLS = 1,2,3,4,5-5.2+5.3+5.4+5.5+13]			
Nose	Nasolacrimal Duct	Inflammation	Mild
		Inflammation	Minimal
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 145	TRT#: 7	SEX: Female	DAY ON TEST: 540
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300145
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 01, 02, 03, & 04 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 10,11-5.6+5.7]			
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 8-6.1]			
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			
Animal Note: TGL # 05 - Noted grossly as Lymph Node, Inguinal was Mammary Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 148	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 543 HISTO: 21320300148
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Tongue
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Kidney	Renal Tubule	Mineralization	Minimal
Liver			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lymph Node	Thoracic	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-5.1]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-5.2]			
Thyroid Gland		Cyst	Squamous, Minimal
Tongue			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 149	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 545 HISTO: 21320300149
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Clitoral Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Nose	Oviduct	Pancreas	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		

MISSING

Esophagus	Parathyroid Gland	Thymus	Thyroid Gland
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OBSERVATIONS

Esophagus			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
[Cyst TGLS = 10-2]			
Liver			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 3,6,7,8,9-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLS = 4-3]			
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 149	TRT#: 3	SEX: Female	DAY ON TEST: 545
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300149
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Thyroid GI			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Minimal
[Hyperplasia TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 150	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 500 HISTO: 21320300150
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
Oviduct	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
* Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
* Liver		Vacuolization Cytoplasmic	Focal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
* Mammary Gland		Fibroadenoma	Multiple
Note: PATHOLOGIST NOTED: FIBROADENOMA ALSO LOCATED ON SLIDE # 12			
[Fibroadenoma TGLS = 1-5]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland		Cyst	Squamous, Mild
Uterus		Hyperplasia	Cystic, Minimal
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 152	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 550 HISTO: 21320300152
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Moderate
Brain [Compression TGLS = 6-8]	Brain Stem	Compression	Mild
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver Note: TGL # 04 - NO MICROSCOPIC CORRELATE		Basophilic Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Adenocarcinoma TGLS = 2-5] [Fibroadenoma TGLS = 1-5.1]		Adenocarcinoma Fibroadenoma Lactation	Minimal
Ovary		Atrophy	Mild
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
Skin Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 152	TRT#: 4	SEX: Female	DAY ON TEST: 550
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300152
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Minimal
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 153	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 551 HISTO: 21320300153
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node	Mammary Gland
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hematopoietic Cell Proliferation	Cystic, Minimal Minimal
[Degeneration TGLS = 4-3]			
Adrenal Medulla		Infiltration Cellular	Eosinophil, Moderate
Clitoral Gland		Inflammation	Mild
Kidney		Accumulation, Hyaline Droplet	Moderate
	Renal Tubule	Histiocytic Sarcoma	
		Mineralization	Minimal
Liver		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 5,10,11,12,13-5.2+5.1]			
Lung		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 7-10]			
Lymph Node			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE (LYMPH NODE, HEMAL)			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 12			
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 9-3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 153	TRT#: 2	SEX: Female	DAY ON TEST: 551
	DOSE: F1 5PPM	DISP: Natural Death	HISTO: 21320300153
ORGAN AND ACCOUNTABLE SITE STATUS			
Skeletal Muscle		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 8-13]			
Skin		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 14-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Thymus		Atrophy	Minimal
Note: TGL # 06 - NOTED GROSSLY AS THYMUS WAS LYMPH NODE, HEMAL			
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Mild
[Hyperplasia TGLS = 1,2-6.1]			
PRIMARY CAUSE OF DEATH	- Liver	Histiocytic Sarcoma	
Animal Note: COD...Proabable - Liver, Histio Sarcoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 163

TRT#: 2

SEX: Female

DAY ON TEST: 560

DOSE: F1 5PPM

DISP: Natural Death

HISTO: 21320300163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Spleen	Lymphocyte	Atrophy	Minimal
		Pigmentation	Moderate
Thymus		Atrophy	Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 3-6.1]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 173

TRT#: 16

SEX: Female

DAY ON TEST: 517

DOSE: F3 5PPM TO CTL

DISP: Moribund

HISTO: 21320300173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 4-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Galactoceles	Mild
	Alveolus	Hyperplasia	Mild
		Lactation	Mild
[Galactoceles TGLS = 3-5.1]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin			
Note: TGL # 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Mild
Uterus		Hyperplasia	Cystic, Minimal
Vagina		Inflammation	Mild
[Inflammation TGLS = 1-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 173	TRT#: 16	SEX: Female	DAY ON TEST: 517
	DOSE: F3 5PPM TO CTL	DISP: Moribund	HISTO: 21320300173
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 174	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 565 HISTO: 21320300174
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
MISSING			
Adrenal Medulla	Parathyroid Gland		
OBSERVATIONS			
Adren Medulla			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Int Lg Colon			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Basophilic Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 3-13]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 1-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 174	TRT#: 4	SEX: Female	DAY ON TEST: 565
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300174
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen		Pigmentation	Moderate
Uterus			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
Animal Note: TGL # 03 - Noted grossly as Lymph Node, Axillary was Mammary Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 175

TRT#: 3

SEX: Female

DAY ON TEST: 565

DOSE: F1 100PPM

DISP: Natural Death

HISTO: 21320300175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Uterus	Vagina	

MISSING

Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Bone Marrow		Hypocellularity	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
	Alveolus	Hyperplasia	Mild
		Lactation	Mild
[Adenocarcinoma TGLS = 1-5.1]			
Ovary		Angiectasis	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 175	TRT#: 3	SEX: Female	DAY ON TEST: 565
	DOSE: F1 100PPM	DISP: Natural Death	HISTO: 21320300175
ORGAN AND ACCOUNTABLE SITE STATUS			
		Cyst	Minimal
Urin Bladder		Hemorrhage	Moderate
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 178	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 567 HISTO: 21320300178
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mesenteric
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 6-3]		Degeneration	Cystic, Mild
Brain Clitoral Gland [Dilatation TGLS = 3-6.1]	Brain Stem Duct	Compression Dilatation Inflammation	Marked Moderate Mild
Heart Kidney	Pelvis Renal Tubule	Cardiomyopathy Mineralization Mineralization Infiltration Cellular Fibroadenoma	Minimal Minimal Minimal Plasma Cell, Mild Multiple
Lymph Node, Mandibular Mammary Gland [Fibroadenoma TGLS = 1,2-5.1+5.2]		Sarcoma	
Mesentery [Sarcoma TGLS = 4-13]			
Nose Ovary	Nasolacrim Dct	Inflammation Atrophy Hyperplasia Adenoma	Mild Mild Stromal, Minimal
Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis		
Skin [Inflammation TGLS = 8,9-13.1+13.2]	Foot	Inflammation	Chronic, Moderate
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 178	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 567 HISTO: 21320300178
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Uterus		Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 181	TRT#: 18	SEX: Female	DAY ON TEST: 525
	DOSE: F3 500PPM TOCTL	DISP: Natural Death	HISTO: 21320300181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Nose	* Ovary
Oviduct	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Clitoral Gland		Vacuolization Cytoplasmic	Moderate
* Kidney	Renal Tubule	Mineralization	Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
* Mammary Gland		Lactation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1,2-5.1]			
* Thymus		Hemorrhage	Moderate
[Hemorrhage TGLS = 4-1]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 182	TRT#: 16	SEX: Female	DAY ON TEST: 527
	DOSE: F3 5PPM TO CTL	DISP: Moribund	HISTO: 21320300182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Mild
		Cyst	
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1,2-5.1+5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 183	TRT#: 18	SEX: Female	DAY ON TEST: 527
	DOSE: F3 500PPM TOCTL	DISP: Natural Death	HISTO: 21320300183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Mammary Gland	Oviduct	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Clitoral Gland		Inflammation	Mild
* Eye	Bilateral, Lens	Cataract	Minimal
[Cataract TGLS = 3-13]			
* Harderian Gl			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 13			
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Mineralization	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Nose	Nasolacrim Dct	Inflammation	Minimal
		Inflammation	Mild
* Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
* Pancreas	Acinar Cell	Degeneration	Minimal
* Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1,2-5.1+5.2]			
* Spleen		Pigmentation	Moderate
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH	- UNCERTAIN
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 184	TRT#: 16	SEX: Female	DAY ON TEST: 528
	DOSE: F3 5PPM TO CTL	DISP: Moribund	HISTO: 21320300184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 1-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Galactoceles	Minimal
		Lactation	Minimal
[Galactoceles TGLS = 2-5.1]			
Nose	Nasolacrimal Duct	Inflammation	Minimal
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 187	TRT#: 4	SEX: Female	DAY ON TEST: 568
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Clitoral Gland	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Moderate
	Cerebrum	Hydrocephalus	Mild
Islets, Pancreatic		Carcinoma	
Kidney		Cyst	
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10+10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 8-9]			
Mammary Gland		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 1-5.1]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Minimal
		Cyst	
[Cyst TGLS = 2-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 6,7-5.2+5.3]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 187	TRT#: 4	SEX: Female	DAY ON TEST: 568
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300187
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Minimal
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 192

TRT#: 6

SEX: Female

DAY ON TEST: 577

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Mild
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 2,3-5.2+5.3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 193	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 525 HISTO: 21320300193
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
MISSING			
Adrenal Medulla			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Minimal
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Minimal
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 194	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 578 HISTO: 21320300194
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Mammary Gland	Nose	Oviduct
Pancreas	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 2-8]			
Kidney	Pelvis	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Atrophy	Moderate
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUTS ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 195

TRT#: 5

SEX: Female

DAY ON TEST: 581

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Clitoral Gland	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

MISSING

Adrenal Medulla

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Moderate
[Degeneration TGLS = 5-3]			
Brain	Brain Stem Cerebrum	Compression Hydrocephalus	Moderate Mild
[Compression TGLS = 6-8]			
Kidney	Pelvis Renal Tubule	Cyst Mineralization Mineralization	Minimal Mild
[Cyst TGLS = 4-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Adenocarcinoma Hyperplasia Lactation	Mild Minimal
[Adenocarcinoma TGLS = 1-5.2]			
Ovary		Atrophy Hyperplasia	Minimal Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 195	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 581 HISTO: 21320300195
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 2-5.3]			
Spleen		Pigmentation	Mild
Stomach, Forestomach		Hyperplasia	Mild
		Ulcer	Mild
Thymus		Atrophy	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 196	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 535 HISTO: 21320300196
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Moderate
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Galactocoele	Mild
		Lactation	Mild
[Galactocoele TGLS = 1,2-5.1+5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin			
Note: TGL # 01 & 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 197

TRT#: 16

SEX: Female

DAY ON TEST: 532

DOSE: F3 5PPM TO CTL

DISP: Moribund

HISTO: 21320300197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Liver	Lung	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Adrenal Medulla

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 1-6.1]			
Heart		Cardiomyopathy	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Galactoceles	Moderate
[Galactoceles TGLS = 2,4-5.1+5.2]			
Nose	Nasolacrimal Duct	Inflammation	Mild
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 3-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 197	TRT#: 16	SEX: Female	DAY ON TEST: 532
	DOSE: F3 5PPM TO CTL	DISP: Moribund	HISTO: 21320300197
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 198

TRT#: 1

SEX: Female

DAY ON TEST: 583

DOSE: F1 0 PPM

DISP: Moribund

HISTO: 21320300198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Angiectasis	Minimal
Brain	Brain Stem	Compression	Moderate
	Cerebrum	Hydrocephalus	Mild
[Compression TGLS = 6-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Moderate
		Inflammation	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3,4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Moderate
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Spleen		Pigmentation	Mild
Stomach, Forestomach		Hyperplasia	Mild
Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 198	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 583 HISTO: 21320300198
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus [Polyp Stromal TGLS = 1,2-6.1+6.2]	Polyp Stromal		
Vagina	Inflammation		Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 200	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 587 HISTO: 21320300200
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lymph Node, Mandibular	Lymph Node, Mesenteric	Oviduct	Pancreas
Parathyroid Gland	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Moderate
[Inflammation TGSL = 1-6.1]			
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGSL = 5-2]			
Liver			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lung		Inflammation	Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGSL = 2-5]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Atrophy	Moderate
	Parotid Gl	Inflammation	Mild
Spleen	Lymphocyte	Atrophy	Marked
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 200	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 587 HISTO: 21320300200
ORGAN AND ACCOUNTABLE SITE STATUS			
[Atrophy TGLS = 3-5]			
Thymus		Atrophy	Marked
Uterus		Hyperplasia	Cystic, Minimal
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 205

TRT#: 18

SEX: Female

DAY ON TEST: 547

DOSE: F3 500PPM TOCTL

DISP: Moribund

HISTO: 21320300205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Inflammation	Minimal
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Moderate
Liver		Angiectasis	Minimal
[Angiectasis TGLS = 3-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 1-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen		Pigmentation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 205	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 547 HISTO: 21320300205
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Minimal
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 208	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 595 HISTO: 21320300208
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lacrimal Gland
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 12-8]			
Kidney	Renal Tubule	Mineralization	Minimal
Lacrimal GI			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Liver	Biliar Tract	Fibrosis	Mild
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 5,6,7,8,9-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
[Adenocarcinoma TGLS = 2-5.1]			
[Fibroadenoma TGLS = 3-5.2]			
Nose		Inflammation	Minimal
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-3]			
Skin	Foot	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 208	TRT#: 7	SEX: Female	DAY ON TEST: 595
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300208
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 10-5.3]			
Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 210	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 598 HISTO: 21320300210
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Minimal
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node, Mandibular		Hemorrhage	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-5.1]			
Spleen		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH			
- Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 211	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 597 HISTO: 21320300211
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mesenteric	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Uterus	Vagina
MISSING			
Thymus	Urinary Bladder		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Mild
[Fibroadenoma TGLS = 1-5.1]			
[Hyperplasia TGLS = 2-5.2]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Moderate
Thymus			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 211	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 597 HISTO: 21320300211
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: PATHOLOGIST NOTED: MEDIASTINAL AREA TRIMMED
Urin Bladder

Note: PATHOLOGIST NOTED: MISSING AT TRIM

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 213

TRT#: 7

SEX: Female

DAY ON TEST: 600

DOSE: F1 500PPM/CTL

DISP: Natural Death

HISTO: 21320300213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Clitoral Gland		Inflammation	Mild
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2.1]			
Lung			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
[Atrophy TGLS = 5-6]			
Pancreas		Inflammation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Mild
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 213	TRT#: 7	SEX: Female	DAY ON TEST: 600
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300213

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 215	TRT#: 7	SEX: Female	DAY ON TEST: 602
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Mild
		Inflammation	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Necrosis	Mild
[Hepatodiaphragmatic Nodule TGLS = 4-5]			
[Necrosis TGLS = 3-5]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 215	TRT#: 7	SEX: Female	DAY ON TEST: 602
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300215
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 5-3]			
Skin		Fibroma	
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Fibroma TGLS = 1-5.1]			
Spleen	Lymphocyte	Atrophy	Mild
		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Moderate
[Hematopoietic Cell Proliferation TGLS = 6-5]			
Thymus		Atrophy	Mild
		Cyst	Moderate
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 218

TRT#: 3

SEX: Female

DAY ON TEST: 603

DOSE: F1 100PPM

DISP: Moribund

HISTO: 21320300218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mesenteric
Nose	Oviduct	Pancreas	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Mild
[Degeneration TGLS = 3-11.1]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Fibroadenoma	
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR SKIN AND MAMMARY ON SLIDE # 5C(5.3)			
[Fibroadenoma TGLS = 1-5.1+5.2+5.3]			
Ovary		Hyperplasia	Stromal, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 218	TRT#: 3	SEX: Female	DAY ON TEST: 603
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300218

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 219	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 605 HISTO: 21320300219
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Oviduct	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Minimal
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 2 ON SLIDE 8A(8.1) [Compression TGLS = 2-8.1]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Nose	Upper Molar	Inflammation	
		Keratin Cyst	
[Keratin Cyst TGLS = 3-11]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Spleen	Lymphocyte	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 219	TRT#: 4	SEX: Female	DAY ON TEST: 605
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300219
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus Uterus Vagina		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
		Atrophy	Moderate
		Hyperplasia	Cystic, Minimal
		Inflammation	Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 220	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 605 HISTO: 21320300220
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mandibular	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Uterus
OBSERVATIONS			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	Multiple
		Lactation	Minimal
[Adenocarcinoma TGLS = 2,3-12+5.2]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 4-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Saliv Glands			
Note: TGL # 02 - NOTED GROSSLY AS SALIVARY GLAND WAS MAMMARY GLAND			
Skin	Foot	Inflammation	Chronic, Moderate
		Keratoacanthoma	
[Inflammation TGLS = 8-5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 220	TRT#: 2	SEX: Female	DAY ON TEST: 605
	DOSE: F1 5PPM	DISP: Moribund	HISTO: 21320300220
ORGAN AND ACCOUNTABLE SITE STATUS			
[Keratoacanthoma TGLS = 1-5.1]			
Thymus		Atrophy	Mild
		Cyst	Moderate
Thyroid Gland	Follicular Cel	Atrophy	Mild
Uterus			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 221	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 604 HISTO: 21320300221
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Vagina
MISSING			
Clitoral Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hematopoietic Cell Proliferation Hypertrophy Compression	Cystic, Mild Minimal Minimal Minimal
Brain [Compression TGLS = 5-8]	Brain Stem		
Clitoral Gl Note: PATHOLOGIST NOTED: OBSCURED BY MAMMARY GLAND MASS			
Islets, Pancreatic		Adenoma	
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 3,4-2]			
Liver	Biliar Tract	Fibrosis	Mild
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Mammary Gland		Adenocarcinoma Lactation	Minimal
[Adenocarcinoma TGLS = 2-5.1]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 221	TRT#: 3	SEX: Female	DAY ON TEST: 604
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300221
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin			
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 6-5]			
Thyroid Gland		Cyst	Squamous, Minimal
		Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 222

TRT#: 17

SEX: Female

DAY ON TEST: 559

DOSE: F3 100PPM TO CTL

DISP: Moribund

HISTO: 21320300222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 9-8]			
Clitoral Gl			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 7-2]			
Liver		Cyst	
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
		Fibroadenoma	Multiple
[Adenocarcinoma TGLS = 1,4-5.1+5.4]			
[Fibroadenoma TGLS = 2,3-5.2+5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 222	TRT#: 17	SEX: Female	DAY ON TEST: 559
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300222
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Cyst	
[Cyst TGLS = 5,6-6]			
Parathyroid Gland		Hyperplasia	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Uterus		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 223	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 559 HISTO: 21320300223
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Blood Vessel		Mineralization	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 3-8]			
Clitoral Gland		Hyperplasia	Mild
		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
[Cyst TGLS = 4-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 1-5.1]			
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 223	TRT#: 18	SEX: Female	DAY ON TEST: 559
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300223
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 2-3]			
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Thymus		Cyst	Mild
Thyroid Gland		Cyst	Squamous, Mild
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 224	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 607 HISTO: 21320300224
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Mild
[Hyperplasia TGLS = 1-3]			
Brain			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Moderate
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 229

TRT#: 7

SEX: Female

DAY ON TEST: 614

DOSE: F1 500PPM/CTL

DISP: Natural Death

HISTO: 21320300229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Islets, Pancreatic	Liver	Nose	Oviduct
Pancreas	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum
------------------------	--------------------------

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Moderate
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 5-8]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3,4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
Parathyroid Gl			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen	Lymphocyte	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 229	TRT#: 7	SEX: Female	DAY ON TEST: 614
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300229
ORGAN AND ACCOUNTABLE SITE STATUS			
Pigmentation			Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 233	TRT#: 4	SEX: Female	DAY ON TEST: 618
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mesenteric
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Marked
	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-6.1]			
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 2-5.1]			
Ovary		Atrophy	Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Pituitary Gland	Pars Distalis	Adenoma	
Note: PATHOLOGIST NOTED: ADENOMA ALSO LOCATED ON SLIDE # 8			
[Adenoma TGLS = 5-3+8]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 6,7-5.2+5.3]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 233	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 618 HISTO: 21320300233
ORGAN AND ACCOUNTABLE SITE STATUS			
	Epithel Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 234		TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 619 HISTO: 21320300234
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur	
Brain - Cerebellum	Clitoral Gland	Esophagus	Heart	
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose	
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands	
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular	
Thyroid Gland	Trachea	Urinary Bladder	Vagina	
OBSERVATIONS				
Adrenal Cortex		Adenoma		
		Degeneration	Cystic, Mild	
		Hypertrophy	Mild	
Brain	Brain Stem	Compression	Marked	
	Cerebrum	Hemorrhage	Moderate	
[Compression TGLS = 6-8]				
Kidney		Cyst		
	Pelvis	Mineralization	Minimal	
	Renal Tubule	Mineralization	Minimal	
[Cyst TGLS = 1-2]				
Lung		Infiltration Cellular	Histiocyte, Minimal	
[Infiltration Cellular TGLS = 3,4-10]				
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal	
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild	
Mammary Gland		Fibroadenoma		
		Lactation	Minimal	
[Fibroadenoma TGLS = 2-5.1]				
Ovary		Atrophy	Moderate	
Pituitary Gland	Pars Distalis	Adenoma		
[Adenoma TGLS = 5-3]				
Skin				
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 234	TRT#: 6	SEX: Female	DAY ON TEST: 619
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300234
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Moderate
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 235	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 620 HISTO: 21320300235
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration Vacuolization Cytoplasmic	Cystic, Mild Mild
[Degeneration TGLS = 4-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 1-8]			
Kidney		Nephropathy	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 3 ON SLIDE # 5B(5.2)			
[Lactation TGLS = 3-5.2]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen		Pigmentation	Mild
Stomach, Forestomach		Diverticulum	Mild
[Diverticulum TGLS = 6-9]			
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 236	TRT#: 4	SEX: Female	DAY ON TEST: 618
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Clitoral Gland	Duct	Dilatation	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 3,7-2]			
Liver		Cyst	
		Hematopoietic Cell Proliferation	Minimal
[Cyst TGLS = 4-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Adenoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 236	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 618 HISTO: 21320300236
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-5]			
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH			
- Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 237	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 620 HISTO: 21320300237
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy Compression	Cystic, Mild Minimal Minimal Minimal
Brain [Compression TGLS = 3-8]	Brain Stem		
Clitoral Gland [Dilatation TGLS = 2-6.1]	Duct	Dilatation	Moderate
Kidney [Cyst TGLS = 5-2]		Cyst	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 1-5.1]		Fibroadenoma Lactation	Minimal
Ovary		Atrophy	Mild
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
Skin Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 238	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 626 HISTO: 21320300238
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Liver	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Marked Mild Minimal
[Degeneration TGLS = 6-3] [Hyperplasia TGLS = 5-3]			
Brain	Brain Stem Cerebrum	Compression Granular Cell Tumor Benign	Mild
[Compression TGLS = 1-8]			
Clitoral Gland		Hyperplasia Inflammation	Mild Minimal
Heart		Cardiomyopathy	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma Adenoma	
	Alveolus	Hyperplasia Lactation	Moderate Minimal
[Adenocarcinoma TGLS = 2-12] [Adenoma TGLS = 3-5.1]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 238	TRT#: 4	SEX: Female	DAY ON TEST: 626
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300238
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Saliv Glands			
Note: TGL # 02 - NOTED GROSSLY AS SALIVARY GLAND WAS MAMMARY GLAND			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 241	TRT#: 3	SEX: Female	DAY ON TEST: 626
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
[Adenoma TGLS = 1-3]			
Brain	Cerebrum	Granular Cell Tumor Malignant	
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 2-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Spleen		Pigmentation	Mild
Thymus		Atrophy	Mild
		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 241	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 626 HISTO: 21320300241
ORGAN AND ACCOUNTABLE SITE STATUS			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Brain Cerebrum Granular Cell Tumor Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 242	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 625 HISTO: 21320300242
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Marked Mild
[Degeneration TGLS = 3-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-6.1]			
Kidney	Pelvis	Cyst	
	Renal Tubule	Mineralization	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 6-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.2]			
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:56

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 242	TRT#: 1	SEX: Female	DAY ON TEST: 625
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300242
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4-3]			
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 243

TRT#: 1

SEX: Female

DAY ON TEST: 622

DOSE: F1 0 PPM

DISP: Moribund

HISTO: 21320300243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Mammary Gland	Oviduct	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Minimal
Eye	Lens, Unilateral	Cataract	Marked
	Retina, Unilateral	Degeneration	Moderate
[Cataract TGLS = 2-13]			
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Skin		Fibroma	
[Fibroma TGLS = 1-5.1]			
Spleen		Pigmentation	Minimal
Thymus			

Note: PATHOLOGIST NOTED: MEDIASTINAL AREA TRIMMED/RECU ATTEMPTED

PRIMARY CAUSE OF DEATH

- Skin Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 628

DOSE: F1 5PPM

DISP: Moribund

HISTO: 21320300244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Nose	Oviduct	Pancreas	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
[Degeneration TGLS = 2-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 3-2]			
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 4-5]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.2]			
Ovary		Atrophy	Mild
Parathyroid Gland			
Note: PATHOLOGIST NOTED: CUT THROUGH			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 244	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 628 HISTO: 21320300244
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia Metaplasia	Cystic, Minimal Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:56
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 245	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 628 HISTO: 21320300245
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 1,3-5.1+5.3]			
[Lactation TGLS = 2-5.2]			
Ovary		Atrophy	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 6-3]			
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4,5-6.2]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 246	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 626 HISTO: 21320300246
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Nose	Ovary	Oviduct	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Biliar Tract	Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
		Adenoma	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Mild
[Adenocarcinoma TGLS = 4-5.4]			
[Adenoma TGLS = 6-5.5]			
[Fibroadenoma TGLS = 1,2,3-5.1+5.2+5.3]			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 246	TRT#: 1	SEX: Female	DAY ON TEST: 626
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300246

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-3]		
Skin		
Note: TGL # 01, 02, 03, 04, & 06 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND		
Spleen	Hematopoietic Cell Proliferation	Mild
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 247	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 626 HISTO: 21320300247
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Moderate Minimal Mild
[Degeneration TGLS = 6-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 8-8]			
Kidney	Renal Tubule	Mineralization	Minimal
Note: TGL # 02 & 03 - NO MICROSCOPIC CORRELATE			
Liver			
Note: TGL # 04 & 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 9-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 247	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 626 HISTO: 21320300247
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 248	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 626 HISTO: 21320300248
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			
OBSERVATIONS			
Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Moderate
Eye			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Kidney	Renal Tubule	Mineralization	Mild
Liver			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Moderate
[Angiectasis TGLS = 4-3]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 249

TRT#: 16

SEX: Female

DAY ON TEST: 575

DOSE: F3 5PPM TO CTL

DISP: Moribund

HISTO: 21320300249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Ovary	Oviduct	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Lung			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 11			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
	Alveolus	Hyperplasia	Moderate
[Adenocarcinoma TGLS = 1-5.3]			
Nose			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 10			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland			
Note: PATHOLOGIST NOTED: CUT THROUGH			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 249	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 575 HISTO: 21320300249
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 2-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 5-5]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 250

TRT#: 2

SEX: Female

DAY ON TEST: 625

DOSE: F1 5PPM

DISP: Moribund

HISTO: 21320300250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Clitoral Gland		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Focal
[Vacuolization Cytoplasmic TGLS = 3-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 251	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 584 HISTO: 21320300251
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Liver	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Uterus	Vagina	
MISSING			
Clitoral Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Minimal
[Degeneration TGLS = 3-3]			
Clitoral Gl			
Note: PATHOLOGIST NOTED: OBSCURED BY MAMMARY GLAND MASS			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Ovary		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 5-5.3]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 252	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 584 HISTO: 21320300252
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
MISSING			
Clitoral Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration Vacuolization Cytoplasmic	Cystic, Mild Moderate
[Degeneration TGLS = 4-3]			
Clitoral Gl			
Note: TGL # 01 - NOTED GROSSLY AS CLITORAL GLAND WAS MAMMARY GLAND			
Note: PATHOLOGIST NOTED: OBSCURED BY MAMMARY GLAND MASS			
Esophagus			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 10			
Kidney		Cyst Mineralization	Mild
	Renal Tubule		
[Cyst TGLS = 3-2]			
Liver		Vacuolization Cytoplasmic	Minimal
[Vacuolization Cytoplasmic TGLS = 5-5.1]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-6.1+5.2]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6,7-5.3+5.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 252	TRT#: 15	SEX: Female	DAY ON TEST: 584
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300252

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 253

TRT#: 5

SEX: Female

DAY ON TEST: 625

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mandibular	Nose	Ovary
Oviduct	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Moderate
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Pancreas	Acinar Cell	Degeneration	Marked
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 2,3-5.2+5.3]			
Thymus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 255	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 627 HISTO: 21320300255
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Minimal
[Degeneration TGLS = 4-3]			
Brain	Brain Stem Cerebrum	Compression Hydrocephalus	Moderate Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia Lactation	Minimal Mild
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen	Lymphocyte	Atrophy Pigmentation	Mild Moderate
Uterus			
Note: TGL # 05 - NOTED GROSSLY AS UTERUS WAS VAGINA			
Vagina		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 255	TRT#: 5	SEX: Female	DAY ON TEST: 627
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300255
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 260	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 589 HISTO: 21320300260
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Mammary Gland	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 1-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 3-8]	Brain Stem	Compression	Moderate
Kidney		Cyst	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 2-6]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: PATHOLOGIST NOTED: ADENOMA ALSO LOCATED ON SLIDE # 8			
[Adenoma TGLS = 4-3+8]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-5.1]			
Spleen		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 261	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 630 HISTO: 21320300261
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Islets, Pancreatic	Liver	Mammary Gland	Nose
Oviduct	Pancreas	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Uterus	Vagina		

MISSING

Parathyroid Gland			
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AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum		
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 8,9-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-13]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 261	TRT#: 4	SEX: Female	DAY ON TEST: 630
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300261
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
[Inflammation TGLS = 1-5.1]			
Spleen	Lymphocyte	Atrophy	Moderate
		Pigmentation	Mild
Urinary Bladder		Developmental Malformation	
[Developmental Malformation TGLS = 10-2]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
Animal Note: Pathologist noted: Lacrimal Gland located on slide # 13A			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 266	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 588 HISTO: 21320300266
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Nose
Ovary	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Moderate
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Liver		Basophilic Focus	
		Developmental Malformation	
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
[Basophilic Focus TGLS = 2-5.1]			
[Developmental Malformation TGLS = 6-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen		Pigmentation	Minimal
Stomach, Forestomach		Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 266	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 588 HISTO: 21320300266
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 267	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 634 HISTO: 21320300267
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Ovary	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Brain - Cerebellum	Thymus
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
Note: PATHOLOGIST NOTED: CEREBELLUM CUT AWAY			
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Cyst	
		Mineralization	Mild
[Cyst TGLS = 9-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7,8-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 1-5.2]			
[Fibroadenoma TGLS = 2-5.1]			
Nose		Fungus	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 267	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 634 HISTO: 21320300267
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Inflammation Adenoma	Moderate
Skin Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND [Inflammation TGLS = 4,6-5.3+5.4]	Foot	Inflammation	Chronic, Moderate
Thymus Note: PATHOLOGIST NOTED: MEDIASTINAL AREA TRIMMED			
PRIMARY CAUSE OF DEATH	- Mammary Gland Adenocarcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 268	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 631 HISTO: 21320300268
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mesenteric	Nose	Ovary	Oviduct
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Atrophy Degeneration	Moderate Cystic, Minimal
[Atrophy TGLS = 3-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Clitoral Gland	Parenchym Cell Duct	Degeneration Dilatation	Moderate Marked
[Dilatation TGLS = 2-6.1]			
Kidney	Renal Tubule	Cyst Mineralization	Minimal
[Cyst TGLS = 6-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 632

DOSE: F1 500PPM

DISP: Moribund

HISTO: 21320300270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Lymph Node, Mesenteric

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lym Node Mesen			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 4-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 270	TRT#: 4	SEX: Female	DAY ON TEST: 632
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300270
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus	Epithel Cell	Hyperplasia	Mild
		Hyperplasia	Lymphoid, Moderate
PRIMARY CAUSE OF DEATH	- Mammary Gland Adenocarcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 271	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 590 HISTO: 21320300271
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Mammary Gland	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Mild
Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
[Adenoma TGLS = 3-2]			
Liver		Clear Cell Focus	
		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 1-5]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Nose		Inflammation	Moderate
		Squamous Cell Carcinoma	
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 2-3]			
Spleen	Lymphocyte	Atrophy	Moderate
		Pigmentation	Mild
Thymus		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	- Nose Squamous Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 273	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 635 HISTO: 21320300273
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mesenteric	Oviduct	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 6-3]		Degeneration	Cystic, Mild
Adrenal Medulla		Hyperplasia Pheochromocytoma Complex	Diffuse, Moderate
Clitoral Gland [Dilatation TGLS = 2-6.1]	Duct	Dilatation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung [Infiltration Cellular TGLS = 8-10]		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland [Fibroadenoma TGLS = 1,3,4-5.1+5.2+5.3]		Fibroadenoma	Multiple
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skin [Inflammation TGLS = 7-5.4]	Foot	Inflammation	Chronic, Mild
Uterus	Cervix, Muscularis	Hypertrophy	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 273	TRT#: 3	SEX: Female	DAY ON TEST: 635
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300273
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hypertrophy TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 274	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 632 HISTO: 21320300274
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Clitoral Gland	Parenchym Cell Duct	Degeneration Dilatation	Moderate Moderate
[Dilatation TGLS = 4-6.1]			
Kidney	Pelvis Renal Tubule	Mineralization Mineralization	Minimal Minimal
Liver		Developmental Malformation	
[Developmental Malformation TGLS = 6-5.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Atrophy Cyst	Mild
[Cyst TGLS = 5-6]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin			
Note: TGL # 02 & 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	Follicular Cel	Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 275	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 592 HISTO: 21320300275
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lymph Node, Mandibular	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Kidney	Pelvis	Mineralization	Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4,5-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 6,7-5.2+5.3]			
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 276	TRT#: 18	SEX: Female	DAY ON TEST: 591
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Cyst	
		Mineralization	Mild
[Cyst TGLS = 5-2]		Nephropathy	Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Fibroadenoma	
		Galactocele	Moderate
[Fibroadenoma TGLS = 1-5.1]			
[Galactocele TGLS = 2-5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 276	TRT#: 18	SEX: Female	DAY ON TEST: 591
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300276

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]
Skin
Note: TGL # 01 & 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 278	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 638 HISTO: 21320300278
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mesenteric	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
AUTO PRECLUDES DIAG.			
Intestine Small, Duodenum	Intestine Small, Ileum		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Mild
Eye	Bilateral, Lens	Cataract	Mild
[Cataract TGLS = 6-13]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Mild
[Fibroadenoma TGLS = 1,3-5.1+5.3]			
[Hyperplasia TGLS = 2-5.2]			
Ovary		Angiectasis	Mild
[Angiectasis TGLS = 4-6]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 8-5.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 278	TRT#: 3	SEX: Female	DAY ON TEST: 638
	DOSE: F1 100PPM	DISP: Natural Death	HISTO: 21320300278
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Mild
Uterus		Angiectasis	Mild
[Angiectasis TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 280	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 640 HISTO: 21320300280
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 2-6.1]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
[Cyst TGLS = 9-2]			
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 3-5.2]			
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
Parathyroid Gland		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 280	TRT#: 2	SEX: Female	DAY ON TEST: 640
	DOSE: F1 5PPM	DISP: Moribund	HISTO: 21320300280
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 8-5.3]			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 5-5]			
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 281	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 638 HISTO: 21320300281
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
MISSING			
Oviduct	Thymus		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Minimal
Clitoral Gl			
Note: TGL # 13 & 14 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Moderate
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Moderate
		Nephropathy	Mild
[Cyst TGLS = 6,7-2]			
Liver		Cyst Hematopoietic Cell Proliferation	Minimal
[Cyst TGLS = 8-5]			
Lung		Inflammation	Mild
Lymph Node	Lumbar	Hemorrhage	Minimal
	Thoracic	Thrombosis	Moderate
[Hemorrhage TGLS = 3-13]			
[Thrombosis TGLS = 9-13.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 281		TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 638 HISTO: 21320300281
ORGAN AND ACCOUNTABLE SITE STATUS				
[Fibroadenoma TGLS = 1-5.1]			Lactation	Mild
Mesentery	Fat		Necrosis	Mild
[Necrosis TGLS = 4-13.1]				
Nose			Inflammation	Minimal
Oviduct				
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED				
Pituitary Gland	Pars Distalis		Hyperplasia	Moderate
Note: TGL # 12 - NO MICROSCOPIC CORRELATE				
Skin				
Note: TGL # 10 & 11 - NO MICROSCOPIC CORRELATE				
Spleen			Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 5-5]				
Thymus				
Note: PATHOLOGIST NOTED: MEDIASTINAL AREA TRIMMED				
Uterus			Necrosis	Moderate
			Polyp Stromal	
[Polyp Stromal TGLS = 2-6.2]				
PRIMARY CAUSE OF DEATH		- Uterus Polyp Stromal		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 283

TRT#: 1

SEX: Female

DAY ON TEST: 646

DOSE: F1 0 PPM

DISP: Moribund

HISTO: 21320300283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Pancreas	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Uterus	Vagina

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Marked Mild
[Degeneration TGLS = 3-3]			
Bone Marrow		Hypocellularity	Moderate
Brain	Brain Stem	Compression	Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 4 ON SLIDE # 8A(8.1)			
[Compression TGLS = 4-8.1]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Mild
Note: PATHOLOGIST NOTED: LACTATION LOCATED ON SLIDE # 12			
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 2-6]			
Parathyroid Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 283	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 646 HISTO: 21320300283
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 8A(8.1)			
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 6,7-5.2+5.3]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Mild
Thyroid Gland		Cyst	Squamous, Mild
PRIMARY CAUSE OF DEATH	- Mammary Gland	Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 284	TRT#: 4	SEX: Female	DAY ON TEST: 644
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
Liver	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
[Fibroadenoma TGLS = 4-5.2]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 284	TRT#: 4	SEX: Female	DAY ON TEST: 644
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300284

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL # 04 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND
[Inflammation TGLS = 7,8-5.3+5.4]

Spleen	Pigmentation	Minimal
Thymus	Hemorrhage	Mild
Uterus	Angiectasis	Minimal
	Hyperplasia	Cystic, Minimal
	Metaplasia	Minimal

[Angiectasis TGLS = 2-6.1]
[Hyperplasia TGLS = 10-6.1]

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 287	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 648 HISTO: 21320300287
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Oviduct	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Moderate
Bone Marrow		Hypocellularity	Moderate
Brain [Compression TGLS = 4-8]	Brain Stem	Compression	Moderate
Clitoral Gland [Dilatation TGLS = 2-6.2]	Parenchym Cell Duct	Degeneration Dilatation Inflammation	Marked Marked Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization Nephropathy	Mild Minimal
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Adenoma TGLS = 1-5.1]		Adenoma Atypical Focus Lactation	Mild
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 287	TRT#: 1	SEX: Female	DAY ON TEST: 648
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300287
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 6-5.2]			
Spleen		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 288

TRT#: 7

SEX: Female

DAY ON TEST: 648

DOSE: F1 500PPM/CTL

DISP: Moribund

HISTO: 21320300288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
[Degeneration TGLS = 3-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
Note: TGL # 02 - NO SECTION TAKEN			
Liver			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Hemorrhage	Minimal
		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 7-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 8-9]			
Mammary Gland		Adenocarcinoma	
		Atypical Focus	
		Lactation	Minimal
[Adenocarcinoma TGLS = 1-5]			
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 288	TRT#: 7	SEX: Female	DAY ON TEST: 648
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300288
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-13]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 289	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 648 HISTO: 21320300289
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Oviduct	Pancreas	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Marked
[Degeneration TGLS = 4-3]			
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 6-8]			
Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver		Basophilic Focus	
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 9-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
		Fibroadenoma	
	Alveolus	Hyperplasia	Moderate
		Lactation	Mild
[Adenocarcinoma TGLS = 2,3-5.2+5.1]			
[Fibroadenoma TGLS = 1-5.3]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 289		TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 648 HISTO: 21320300289
ORGAN AND ACCOUNTABLE SITE STATUS				
Parathyroid Gland			Cyst	
Pituitary Gland	Pars Distalis		Hyperplasia	Focal, Mild
[Carcinoma TGLS = 5-3]			Carcinoma	
Skin	Foot		Inflammation	Chronic, Minimal
Note: TGL # 01 & 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND				
[Inflammation TGLS = 7-5.4]				
Uterus			Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 8-6.1]			Polyp Stromal	
PRIMARY CAUSE OF DEATH		- Pituitary Gland Pars Distalis Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 291	TRT#: 7	SEX: Female	DAY ON TEST: 643
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Oviduct	Pancreas	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 2-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Minimal
Kidney	Pelvis	Mineralization	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
Ovary		Hyperplasia	Stromal, Minimal
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 292

TRT#: 17

SEX: Female

DAY ON TEST: 605

DOSE: F3 100PPM TO CTL

DISP: Moribund

HISTO: 21320300292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Oviduct

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Mild
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 5A(5.1)			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 1-5.1]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 292	TRT#: 17	SEX: Female	DAY ON TEST: 605
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300292
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 293

TRT#: 17

SEX: Female

DAY ON TEST: 605

DOSE: F3 100PPM TO CTL

DISP: Natural Death

HISTO: 21320300293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	Bone, Femur	* Brain - Brain Stem
* Brain - Cerebellum	* Brain - Cerebrum	Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Nose	Oviduct	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	Uterus
Vagina			

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hematopoietic Cell Proliferation	Minimal
Blood Vessel		Mineralization	Minimal
* Heart		Mineralization	Minimal
* Kidney	Renal Tubule	Cyst	
		Mineralization	Mild
[Cyst TGLS = 2-2]			
[Mineralization TGLS = 3-2]			
* Liver		Hemorrhage	Minimal
		Vacuolization Cytoplasmic	Mild
[Hemorrhage TGLS = 4-5]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
* Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
* Spleen	Lymphocyte	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 293	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 605 HISTO: 21320300293
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Pigmentation	Mild
* Urin Bladder		Atrophy	Marked
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
PRIMARY CAUSE OF DEATH	- Mammary Gland Adenocarcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 294	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 653 HISTO: 21320300294
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 3-8]			
Clitoral Gland	Duct	Dilatation	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 1-5.1]			
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 297	TRT#: 7	SEX: Female	DAY ON TEST: 650
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
[Degeneration TGLS = 2-3]			
Brain	Brain Stem	Compression	Mild
Note: TGL # 07 - NOTED GROSSLY AS BRAIN WAS PITUITARY GLAND			
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 8-6.1]			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Cyst	
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 9-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: TGL # 07 - NOTED GROSSLY AS BRAIN WAS AN EXTENSION OF THE PITUITARY GLAND TUMOR			
[Adenoma TGLS = 4,7-3+8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 297	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 650 HISTO: 21320300297
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 5-5.1]	Foot	Inflammation	Chronic, Marked
Uterus		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 298	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 656 HISTO: 21320300298
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mesenteric	Mammary Gland	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Mild
Kidney	Pelvis	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4-5.1]			
Spleen		Pigmentation	Moderate
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 1-6.1]			
PRIMARY CAUSE OF DEATH			
- Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 299	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 654 HISTO: 21320300299
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mandibular	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Moderate
Clitoral Gland [Inflammation TGLS = 5-6.1]		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 1,2-5.1+5]		Fibroadenoma	Multiple
Ovary		Atrophy	Mild
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
Skin Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 300	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 654 HISTO: 21320300300
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 3-2]			
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 301	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 612 HISTO: 21320300301
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
Bone, Femur	* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	Oviduct
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		
OBSERVATIONS			
* Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 8-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 5-6.1]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Mineralization	Mild
* Lung		Inflammation	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
[Inflammation TGLS = 10-9]			
* Mammary Gland		Adenocarcinoma	Multiple
		Atypical Focus	
	Alveolus	Hyperplasia	Mild
		Lactation	Minimal
Note: PATHOLOGIST NOTED: ATYPICAL FOCUS LOCATED ON SLIDE # 13			
[Adenocarcinoma TGLS = 2,3-5.1+5.2]			
[Hyperplasia TGLS = 1-13]			
* Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 301	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 612 HISTO: 21320300301
ORGAN AND ACCOUNTABLE SITE STATUS			
* Skin Note: TGL # 02 & 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND [Inflammation TGLS = 9-5.3]	Foot	Inflammation	Chronic, Minimal
* Spleen [Hematopoietic Cell Proliferation TGLS = 6-5]		Hematopoietic Cell Proliferation	Mild
Uterus		Angiectasis Hyperplasia Polyp Stromal	Moderate Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
Animal Note: TGL # 01 - Noted grossly as Lymph Node, Inguinal was Mammary Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 303	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 658 HISTO: 21320300303
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mandibular	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 2-3]		Degeneration	Cystic, Moderate
Adrenal Medulla		Hyperplasia	Focal, Minimal
Clitoral Gland		Inflammation	Mild
Kidney [Cyst TGLS = 3-2]	Renal Tubule	Cyst Mineralization	Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland [Fibroadenoma TGLS = 1-5.1]		Fibroadenoma	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin [Inflammation TGLS = 5-5.2]	Foot	Inflammation	Chronic, Minimal
Thymus		Cyst	Minimal
Uterus [Adenocarcinoma TGLS = 4-6.1]		Adenocarcinoma	
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 304	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 657 HISTO: 21320300304
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Liver		Degeneration	Cystic, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 8-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Moderate
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 304	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 657 HISTO: 21320300304
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 4,7-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 305

TRT#: 3

SEX: Female

DAY ON TEST: 657

DOSE: F1 100PPM

DISP: Moribund

HISTO: 21320300305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Lung
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Nose		Squamous Cell Carcinoma	
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 2-5.2]			

PRIMARY CAUSE OF DEATH

- Nose Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 306	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 656 HISTO: 21320300306
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 4-3]			
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 2-6.1]			
Harderian Gland	Epithelium	Degeneration	Minimal
[Degeneration TGLS = 7-13]			
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 5-6]			
Pancreas	Acinar Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 306	TRT#: 2	SEX: Female	DAY ON TEST: 656
	DOSE: F1 5PPM	DISP: Moribund	HISTO: 21320300306
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Spleen		Pigmentation	Mild
Stom Gland			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 658

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Moderate
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Ovary		Cyst	
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin		Lipoma	
[Lipoma TGLS = 5-5.3]			

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 308	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 657 HISTO: 21320300308
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Oviduct	Thymus
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OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Minimal
[Degeneration TGLS = 5-3]			
Clitoral Gland	Duct	Dilatation	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
[Cyst TGLS = 6-2]			
Liver		Eosinophilic Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 308	TRT#: 7	SEX: Female	DAY ON TEST: 657
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300308
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Minimal
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 309

TRT#: 5

SEX: Female

DAY ON TEST: 658

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Ovary
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy Vacuolization Cytoplasmic	Cystic, Mild Minimal Moderate
[Degeneration TGLS = 7-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 11-8]			
Clitoral Gland		Inflammation	Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
[Inflammation TGLS = 2-6.1]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Moderate
		Nephropathy	Minimal
[Cyst TGLS = 8,9-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Note: TGL # 10 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
[Fibroadenoma TGLS = 1,4,5-5.1+5.2+5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 309

TRT#: 5

SEX: Female

DAY ON TEST: 658

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300309

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary

Note: TGL # 06 - NO MICROSCOPIC CORRELATE

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 12-3]

Skin

Note: TGL # 01,04,&05 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 310	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 613 HISTO: 21320300310
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mesenteric	Nose	Ovary
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration Vacuolization Cytoplasmic	Cystic, Mild Minimal
[Degeneration TGLS = 3-3]			
Clitoral Gland		Inflammation	Mild
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 311	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 654 HISTO: 21320300311
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 2-3]		Degeneration	Cystic, Mild
Adrenal Medulla		Hyperplasia	Focal, Moderate
Brain [Compression TGLS = 5-8]	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
Salivary Glands	Submandibul GI	Inflammation	Minimal
Skin [Inflammation TGLS = 3-5.1]	Foot	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 311	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 654 HISTO: 21320300311
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Mild
[Hyperplasia TGLS = 1-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 313

TRT#: 17

SEX: Female

DAY ON TEST: 616

DOSE: F3 100PPM TO CTL

DISP: Natural Death

HISTO: 21320300313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow
* Intestine Large, Cecum
* Lymph Node, Mesenteric
* Salivary Glands
* Urinary Bladder

* Brain - Cerebellum
* Intestine Large, Colon
* Nose
* Stomach, Forestomach
Uterus

* Brain - Cerebrum
* Intestine Small, Duodenum
Oviduct
* Thyroid Gland

* Esophagus
* Islets, Pancreatic
* Pancreas
* Trachea

MISSING

* Thymus

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex
[Degeneration TGLS = 2-3]
* Adrenal Medulla
Blood Vessel
Bone, Femur
* Brain
[Compression TGLS = 4-8]
Clitoral Gland
[Inflammation TGLS = 1-6.1]
* Heart
* Kidney
[Nephropathy TGLS = 3-2]
* Liver
* Lung

Brain Stem

Alveolus

Degeneration

Hyperplasia
Mineralization
Fibrous Osteodystrophy
Compression

Inflammation

Cardiomyopathy
Mineralization
Nephropathy

Vacuolization Cytoplasmic
Hemorrhage
Infiltration Cellular
Inflammation
Infiltration Cellular
Degeneration
Lactation

Cystic, Moderate

Focal, Mild
Mild

Minimal

Moderate

Moderate
Moderate
Marked

Mild
Mild
Histiocyte, Moderate
Mild
Plasma Cell, Mild
Mild
Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 313	TRT#: 17	SEX: Female	DAY ON TEST: 616
	DOSE: F3 100PPM TO CTL	DISP: Natural Death	HISTO: 21320300313
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Mild
* Parathyroid Gland		Hyperplasia	Diffuse, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 6-5.1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Mineralization	Mild
* Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 314

TRT#: 17

SEX: Female

DAY ON TEST: 618

DOSE: F3 100PPM TO CTL

DISP: Natural Death

HISTO: 21320300314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
Oviduct	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	Uterus	Vagina

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
		Hypertrophy	Mild
* Brain	Brain Stem	Compression	Moderate
	Cerebrum	Hydrocephalus	Minimal
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 1-6.1]			
* Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
* Liver		Vacuolization Cytoplasmic	Mild
* Lung		Inflammation	Mild
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
* Mammary Gland		Lactation	Mild
* Nose		Inflammation	Mild
Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Skin	Foot	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 314	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 618 HISTO: 21320300314
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 4-5.1]			
* Spleen	Pigmentation		Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 660

DOSE: F1 500PPM

DISP: Moribund

HISTO: 21320300315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Clitoral Gland	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Moderate
	Cerebrum	Hydrocephalus	Mild
[Compression TGSL = 3-8]			
Kidney		Cyst	
[Cyst TGSL = 5,6-2+2.1]			
Liver		Vacuolization Cytoplasmic	Focal
		Vacuolization Cytoplasmic	Minimal
[Vacuolization Cytoplasmic TGSL = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
		Lactation	Mild
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGSL = 4-3]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGSL = 1-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 315	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 660 HISTO: 21320300315
ORGAN AND ACCOUNTABLE SITE STATUS			
Vagina		Developmental Malformation Hyperplasia Inflammation	Mild Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 316	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 660 HISTO: 21320300316
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Clitoral Gland	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 6,7-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 9-8]	Brain Stem Cerebrum	Compression Hydrocephalus	Moderate Mild
Kidney Lymph Node, Mandibular [Infiltration Cellular TGLS = 4-12]	Pelvis	Mineralization Degeneration Infiltration Cellular	Minimal Cystic, Moderate Plasma Cell, Mild
Lymph Node, Mesenteric Mammary Gland [Hyperplasia TGLS = 1,2,3-5.1+5.2+5.3]	Alveolus	Inflammation Atypical Focus Hyperplasia Lactation	Granulomatous, Mild Moderate Mild
Ovary [Cyst TGLS = 5-6]		Cyst Granulosa Cell Tumor Benign	
Pituitary Gland [Adenoma TGLS = 8-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 10-5.4]	Foot	Inflammation	Chronic, Mild
Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 316	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 660 HISTO: 21320300316
ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach, Forestomach Thymus		Ulcer Atrophy	Moderate Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 317	TRT#: 7	SEX: Female	DAY ON TEST: 661
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
[Degeneration TGLS = 9-3]			
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 4-8]			
Clitoral Gland	Duct	Dilatation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Biliar Tract	Fibrosis	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Vacuolization Cytoplasmic	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lung			
[Infiltration Cellular TGLS = 11-10]			
Lymph Node	Pancreatic	Hemorrhage	Mild
[Hemorrhage TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
[Degeneration TGLS = 10-9]			
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 317	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 661 HISTO: 21320300317
ORGAN AND ACCOUNTABLE SITE STATUS			
Salivary Glands	Parotid Gland	Inflammation	Moderate
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 06 & 07 - NO MICROSCOPIC CORRELATE [Inflammation TGLS = 8-5.3]			
Spleen		Pigmentation	Mild
Stomach, Forestomach		Hyperplasia	Mild
		Ulcer	Minimal
Thymus		Atrophy	Mild
		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Moderate
Note: TGL # 01 - NO MICROSCOPIC CORRELATE [Hyperplasia TGLS = 2-6.1]			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 321	TRT#: 5	SEX: Female	DAY ON TEST: 667
	DOSE: F1 5PPM/CTL	DISP: Natural Death	HISTO: 21320300321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mesenteric	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 6-8]			
Clitoral Gland	Duct	Dilatation	Minimal
[Dilatation TGLS = 1-6.1]			
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 8-10]			
Lymph Node	Popliteal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Hemorrhage	Mild
		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.1]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 321	TRT#: 5	SEX: Female	DAY ON TEST: 667
	DOSE: F1 5PPM/CTL	DISP: Natural Death	HISTO: 21320300321
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 7-5.2]			
Spleen		Pigmentation	Moderate
Thymus		Hemorrhage	Moderate
Thyroid GI			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 324	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 668 HISTO: 21320300324
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Mild
[Adenoma TGLS = 2-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Heart		Cardiomyopathy	Mild
Int Sm Duoden			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 3,8-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Hemorrhage	Mild
		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Nose	Nasolacrim Dct	Inflammation	Mild
	Upper Molar	Inflammation	
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 324	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 668 HISTO: 21320300324
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 7-5.1]	Foot	Inflammation	Chronic, Minimal
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 325	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 669 HISTO: 21320300325
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Cerebrum	Hydrocephalus	Mild
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 2-6.1]			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
		Galactoceles	Moderate
	Alveolus	Hyperplasia	Moderate
		Lactation	Mild
[Galactoceles TGLS = 1-5.2]			
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 4-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 325	TRT#: 1	SEX: Female	DAY ON TEST: 669
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300325

ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 7-5.1]			
Thymus		Atrophy	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 327	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 670 HISTO: 21320300327
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Mammary Gland	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Heart		Cardiomyopathy	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Moderate
		Nephropathy	Minimal
[Cyst TGLS = 1-2]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Nose		Inflammation	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 3,4-5.1+5.2]			
Thymus		Atrophy	Minimal
		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Nose Inflammation		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 330	TRT#: 6	SEX: Female	DAY ON TEST: 670
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 3,4-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 8,9-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 5-9]			
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Thymus		Cyst	Minimal

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 331	TRT#: 5	SEX: Female	DAY ON TEST: 669
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Clitoral Gland		Inflammation	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 2-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 6-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
[Inflammation TGLS = 3-9]			
Mammary Gland		Lactation	Mild
Nose		Inflammation	Mild
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 5-5.1]			
Thymus		Cyst	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 331	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 669 HISTO: 21320300331
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 1-6.1]		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	- Nose Inflammation		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 332	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 668 HISTO: 21320300332
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Compression	Cystic, Mild Minimal Mild
Brain [Compression TGLS = 5-8]	Brain Stem		
Clitoral Gland [Inflammation TGLS = 2-6.1]	Duct	Dilatation Inflammation	Moderate Marked
Kidney Liver [Inflammation TGLS = 4,7-5+5.2]	Pelvis	Mineralization Inflammation	Mild Chronic Active, Moderate
Lymph Node, Mandibular Lymph Node, Mesenteric Mammary Gland [Lactation TGLS = 1-5.1]		Infiltration Cellular Inflammation Lactation	Plasma Cell, Mild Granulomatous, Minimal Minimal
Nose Ovary [Cyst TGLS = 3-6]	Nasolacrim Dct	Inflammation Atrophy Cyst	Minimal Mild
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Spleen		Inflammation Pigmentation	Chronic Active, Focal, Moderate Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 332	TRT#: 3	SEX: Female	DAY ON TEST: 668
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300332
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 8-5]			
Uterus		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 333

TRT#: 7

SEX: Female

DAY ON TEST: 671

DOSE: F1 500PPM/CTL

DISP: Moribund

HISTO: 21320300333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 10-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 1-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 333	TRT#: 7	SEX: Female	DAY ON TEST: 671
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300333
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 8,9-5.1+5.2]			
Thymus		Cyst	Mild
[Cyst TGLS = 5-1]			
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 334	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 670 HISTO: 21320300334
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 7-8]			
Clitoral Gl			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 4-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Lactation	Mild
Ovary		Atrophy	Minimal
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 334	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 670 HISTO: 21320300334
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-5.1]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Mild
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 335	TRT#: 7	SEX: Female	DAY ON TEST: 669
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Moderate
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 4-8]			
Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 2-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Thymus		Cyst	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 337	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 675 HISTO: 21320300337
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Oviduct	Pancreas
Parathyroid Gland	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 7,8-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenoma	
	Alveolus	Hyperplasia	Mild
		Lactation	Minimal
[Adenoma TGLS = 1-5.1]			
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Minimal
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 2-6]			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 337	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 675 HISTO: 21320300337
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4-3]			
Salivary Glands	Parotid GI	Inflammation	Mild
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-5.2]			
Spleen		Pigmentation	Marked
Thymus		Atrophy	Mild
Uterus			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 338	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 673 HISTO: 21320300338
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Glandular
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Eye	Cornea	Ulcer	Marked
[Ulcer TGLS = 5-13]			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Cyst	
		Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 4-2]			
Liver		Inflammation	Chronic Active, Mild
		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
[Lactation TGLS = 2-5.2]			
Nose	Nasolacrim Dct	Inflammation	Mild
		Inflammation	Mild
		Squamous Cell Carcinoma	
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 338	TRT#: 7	SEX: Female	DAY ON TEST: 673
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300338
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 7,8-5.3+5.4]			
Spleen		Pigmentation	Minimal
Stomach, Forestomach		Hyperplasia	Mild
		Inflammation	Mild
Thymus		Atrophy	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 339	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 673 HISTO: 21320300339
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Salivary Glands	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Bone Marrow		Hypocellularity	Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 1-6.1]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Moderate
[Cyst TGLS = 2-2]			
Liver		Vacuolization Cytoplasmic	Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 7-13]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 339	TRT#: 5	SEX: Female	DAY ON TEST: 673
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300339
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 6-5.1]			
Spleen		Pigmentation	Moderate
Stomach, Forestomach		Hyperplasia	Moderate
		Inflammation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 340	TRT#: 18	SEX: Female	DAY ON TEST: 631
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Parathyroid Gland	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
[Nephropathy TGLS = 4-2]			
Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Adenocarcinoma TGLS = 1-5.1]			
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 3-6]			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 340	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 631 HISTO: 21320300340
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Salivary Glands		Atrophy	Mild
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 7,8-5.3+5.4]			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 341

TRT#: 15

SEX: Female

DAY ON TEST: 630

DOSE: F3 0 PPM

DISP: Moribund

HISTO: 21320300341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Clitoral Gland	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
Adrenal Medulla		Pheochromocytoma Benign	
Brain	Brain Stem	Compression	Mild
	Cerebrum	Hydrocephalus	Mild
[Compression TGLS = 5-8]			
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver		Cyst	
		Necrosis	Minimal
[Cyst TGLS = 4-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 341	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 630 HISTO: 21320300341
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 344	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 673 HISTO: 21320300344
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Lacrimal Gland		Metaplasia	Mild
[Metaplasia TGLS = 1-13]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Moderate
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 3-5.1]			
Nose		Inflammation	Minimal
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 344	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 673 HISTO: 21320300344
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 6,7-5.2+5.3]			
Spleen		Pigmentation	Mild
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 345	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 676 HISTO: 21320300345
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 7,8-5.3+5.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 345	TRT#: 7	SEX: Female	DAY ON TEST: 676
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300345
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 679

DOSE: F1 500PPM

DISP: Natural Death

HISTO: 21320300350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 1-6.1]			
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Cyst	
	Renal Tubule	Mineralization	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 6-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Galactoceles	Mild
		Lactation	Mild
[Adenocarcinoma TGLS = 2-5.1]			
[Galactoceles TGLS = 7-13]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 350	TRT#: 4	SEX: Female	DAY ON TEST: 679
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300350
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Mild
Thymus		Atrophy	Mild
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
Animal Note: TGL # 07 - Noted grossly as Lymph Node, inguinal was Mammary Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 352	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 678 HISTO: 21320300352
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Cerebrum	Granular Cell Tumor Nos	
[Granular Cell Tumor Nos TGLS = 2-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Minimal
		Inflammation	Mild
Esophagus	Lumen	Dilatation	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Nose		Foreign Body	
		Inflammation	Moderate
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4,5-5.1+5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 352	TRT#: 4	SEX: Female	DAY ON TEST: 678
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300352
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Marked
Stomach, Glandular		Erosion	Mild
Thymus		Atrophy	Mild
		Cyst	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Uterus		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Moderate
[Nephropathy TGLS = 4-2]			
Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Moderate
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 1-5.1]			
Ovary		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 353	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 683 HISTO: 21320300353
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Moderate
Urinary Bladder		Mineralization	Moderate
Vagina		Inflammation	Moderate
[Inflammation TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 354

TRT#: 2

SEX: Female

DAY ON TEST: 681

DOSE: F1 5PPM

DISP: Moribund

HISTO: 21320300354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 2-8]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6,7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Lactation	Mild
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4,5-5.1+5.2]			
Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 355

TRT#: 17

SEX: Female

DAY ON TEST: 635

DOSE: F3 100PPM TO CTL

DISP: Moribund

HISTO: 21320300355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 8-8]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Cyst	
		Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 6-2]			
Lymph Node, Mandibular		Hemorrhage	Minimal
		Infiltration Cellular	Plasma Cell, Minimal
[Hemorrhage TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 3-6]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 355	TRT#: 17	SEX: Female	DAY ON TEST: 635
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300355
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Moderate
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			
Animal Note: TGL # 09 - No section taken (Cavity)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: F1 100PPM/CTL

DISP: Moribund

HISTO: 21320300357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Cortex		Hyperplasia	Moderate
Clitoral Gl			
Note: PATHOLOGIST NOTED: INVOLVED IN MAMMARY MASS			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
		Adenoma	
Pituitary Gland	Pars Distalis		
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Marked
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 5-5.3]			
Uterus			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 357	TRT#: 6	SEX: Female	DAY ON TEST: 683
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300357

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 358	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 641 HISTO: 21320300358
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Oviduct
Pancreas	Parathyroid Gland	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Clitoral Gland	Duct	Dilatation	Mild
Kidney	Renal Tubule	Mineralization	Mild
Liver		Vacuolization Cytoplasmic	Moderate
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
[Vacuolization Cytoplasmic TGLS = 3-5]			
Lung	Alveolar Epith	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Mild
		Lactation	Mild
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Salivary Glands		Atrophy	Moderate
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 7-5.1]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 358	TRT#: 17	SEX: Female	DAY ON TEST: 641
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300358
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-6.1]			
Vagina		Inflammation	Moderate
[Inflammation TGLS = 1-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 360	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 686 HISTO: 21320300360
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Minimal Minimal
[Degeneration TGLS = 5-3]			
Blood Vessel		Mineralization	Marked
Clitoral Gland			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED MAMMARY GLAND CONFUSED GROSSLY			
Harderian Gland			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Moderate
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 6-2]			
Liver		Basophilic Focus	
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	Multiple
		Fibroadenoma	
	Alveolus	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 360	TRT#: 2	SEX: Female	DAY ON TEST: 686
	DOSE: F1 5PPM	DISP: Moribund	HISTO: 21320300360
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenocarcinoma TGLS = 2,3-5.2+5.3]		Lactation	Mild
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 362	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 688 HISTO: 21320300362
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Oviduct
Pancreas	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Eosinophilic Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Hemorrhage	Mild
		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Granulosa Cell Tumor Benign	
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 4-5.1]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 362	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 688 HISTO: 21320300362
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ORGAN AND ACCOUNTABLE SITE STATUS

Uterus
Note: TGL # 05 - NO MICROSCOPIC CORRELATE
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 364	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 688 HISTO: 21320300364
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 10-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-6.1]			
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
[Adenocarcinoma TGLS = 3,4,5,6,7-5.1+5.2+5.3+5.4+5.5]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Skin			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 5A(5.1)			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 364	TRT#: 4	SEX: Female	DAY ON TEST: 688
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300364
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 8-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Adenocarcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 365	TRT#: 4	SEX: Female	DAY ON TEST: 688
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Oviduct
Pancreas	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Kidney	Pelvis	Mineralization	Minimal
Liver	Biliar Tract	Fibrosis	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 1-5.1]			
Nose		Inflammation	Minimal
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Parathyroid Gland		Hyperplasia	Focal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 365	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 688 HISTO: 21320300365
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 7,8-5.2+5.3]	Foot	Inflammation	Chronic, Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus [Hyperplasia TGLS = 3-6.1]		Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 369	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 688 HISTO: 21320300369
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-13]		Lactation	Minimal
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 4-5.1]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			
Animal Note: TGL # 01 - Noted grossly as Tissue NOS was Mammary Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 370	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 691 HISTO: 21320300370
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Clitoral Gland	Duct	Dilatation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Galactoceles	Moderate
		Lactation	Mild
[Galactoceles TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
		Granulosa Cell Tumor Malignant	
		Hyperplasia	Stromal, Mild
[Granulosa Cell Tumor Malignant TGLS = 2-6]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 370	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 691 HISTO: 21320300370
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ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 6,7-5.2+5.3]		
Spleen	Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis	Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 371	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 640 HISTO: 21320300371
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 2-8]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Inflammation	Moderate
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-5.1]			
Nose		Inflammation	Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 372

TRT#: 5

SEX: Female

DAY ON TEST: 692

DOSE: F1 5PPM/CTL

DISP: Natural Death

HISTO: 21320300372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Compression	Minimal
Brain	Brain Stem		
[Compression TGLS = 3-8]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 372	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 692 HISTO: 21320300372
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen Thymus Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 373	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 648 HISTO: 21320300373
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 1-5.1]			
Oviduct		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 6,7-5.2+5.3]			
Spleen		Pigmentation	Moderate
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 373	TRT#: 17	SEX: Female	DAY ON TEST: 648
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300373
ORGAN AND ACCOUNTABLE SITE STATUS			
		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 375

TRT#: 18

SEX: Female

DAY ON TEST: 650

DOSE: F3 500PPM TOCTL

DISP: Moribund

HISTO: 21320300375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

MISSING

Adrenal Medulla

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 3-6.1]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 2-5.2]			
[Lactation TGLS = 1-5.1]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 7-5.3]			
Spleen		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 375	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 650 HISTO: 21320300375
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 376	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 694 HISTO: 21320300376
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
Brain [Compression TGLS = 4-8]	Brain Stem	Compression	Mild
Clitoral Gland [Inflammation TGLS = 2-6.1]		Inflammation	Mild
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular [Infiltration Cellular TGLS = 1-12]		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
Uterus [Hyperplasia TGLS = 3-6.1]		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH			
- Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 377	TRT#: 7	SEX: Female	DAY ON TEST: 696
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Mammary Gland	Nose	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Mild
		Hypertrophy	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Necrosis	Mild
		Vacuolization Cytoplasmic	Minimal
[Vacuolization Cytoplasmic TGLS = 5-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13.1]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 377	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 696 HISTO: 21320300377
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 7,8-5.2+5.1]	Foot	Inflammation	Chronic, Moderate
Spleen [Hematopoietic Cell Proliferation TGLS = 4-5]		Hematopoietic Cell Proliferation	Marked
Thymus Tissue NOS [Liposarcoma TGLS = 2-13]		Atrophy Liposarcoma	Minimal
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH - Tissue NOS Liposarcoma			
Animal Note: TGL # 02 - Noted grossly as Abdominal Cavity mass was Tissue NOS			
Animal Note: TGL # 03 - Noted grossly as Thoracic Cavity nodule was Mesentery			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 378	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 698 HISTO: 21320300378
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Moderate
		Hypertrophy	Minimal
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 6-8]			
Clitoral Gland		Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Note: TGL # 05 - NO SECTION TAKEN			
[Nephropathy TGLS = 4-2]			
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 378	TRT#: 1	SEX: Female	DAY ON TEST: 698
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300378
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 7-3]		Adenoma	
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 8-5.2]			
Thymus		Atrophy	Minimal
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 379	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 695 HISTO: 21320300379
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 9-8]			
Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 4-6.1]			
Kidney	Pelvis	Mineralization	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 10-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 5-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
		Fibroadenoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 1,3-5.1+5.3]			
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Thyroid Gland	C Cell	Adenoma	
		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 379	TRT#: 7	SEX: Female	DAY ON TEST: 695
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300379
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hypertrophy TGLS = 6-6.2]			
Vagina			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 380

TRT#: 1

SEX: Female

DAY ON TEST: 698

DOSE: F1 0 PPM

DISP: Moribund

HISTO: 21320300380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Clitoral Gl			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 7-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 8-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2,3-5.1+5.2+5.3]			
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 380	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 698 HISTO: 21320300380
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 6-5.4]			
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 382	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 698 HISTO: 21320300382
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea		
MISSING			
Ovary	Oviduct	Parathyroid Gland	Thymus
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 10-8]			
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Minimal
[Dilatation TGLS = 2-6.2]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Mild
[Cyst TGLS = 11-2]			
Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
[Infiltration Cellular TGLS = 8-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 382	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 698 HISTO: 21320300382
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 1-5.1]			
Ovary			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Oviduct			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid G1			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5,6-5.2+5.3]			
Spleen		Pigmentation	Mild
Stom Forestom			
Note: TGL # 12 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: NORMAL FOLD			
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Urin Bladder			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Uterus			
Note: TGL # 04 - NO SECTION TAKEN			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Vagina			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
PRIMARY CAUSE OF DEATH		- Pituitary Gland Pars Distalis Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 383	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 698 HISTO: 21320300383
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Lymph Node, Mandibular	Mammary Gland	Nose
Oviduct	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			
OBSERVATIONS			
Clitoral Gland		Inflammation Squamous Cell Papilloma	Moderate
[Inflammation TGLS = 1-6.1]			
Kidney			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Liver		Vacuolization Cytoplasmic	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Ovary		Hyperplasia	Stromal, Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4,5-5.1+5.2]			
Uterus		Sarcoma Stromal	
[Sarcoma Stromal TGLS = 2-6.2]			
PRIMARY CAUSE OF DEATH	- Uterus Sarcoma Stromal		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 389	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 703 HISTO: 21320300389
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Moderate
	Cerebrum	Hydrocephalus	Mild
[Compression TGLS = 4-8]			
Clitoral Gland		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Liver		Vacuolization Cytoplasmic	Focal
[Vacuolization Cytoplasmic TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Atrophy	Minimal
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 1-6]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 390	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 658 HISTO: 21320300390
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Bone Marrow	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Hyperplasia	Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Blood Vessel		Mineralization	Mild
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 1-6.1]			
Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Cyst	
		Mineralization	Mild
		Nephropathy	Marked
[Cyst TGLS = 4,5-2]			
Lung		Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
		Lactation	Mild
[Adenocarcinoma TGLS = 2,3-5.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 6,7-5.2+5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 390	TRT#: 15	SEX: Female	DAY ON TEST: 658
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300390
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach, Glandular		Mineralization	Mild
PRIMARY CAUSE OF DEATH	- Mammary Gland Adenocarcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 392

TRT#: 7

SEX: Female

DAY ON TEST: 704

DOSE: F1 500PPM/CTL

DISP: Natural Death

HISTO: 21320300392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

AUTO PRECLUDES DIAG.

Intestine Small, Ileum

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Dilatation TGLS = 2-6.2]			
Heart		Cardiomyopathy	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 5-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 392	TRT#: 7	SEX: Female	DAY ON TEST: 704
	DOSE: F1 500PPM/CTL	DISP: Natural Death	HISTO: 21320300392
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 4-5.1]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Mild
		Cyst	Mild
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-6.2]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 393	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 661 HISTO: 21320300393
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Uterus	
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Marked
[Hypertrophy TGLS = 6-3]			
Brain	Cerebrum	Glioma Malignant, Mixed	
Clitoral Gland	Duct	Dilatation Inflammation	Moderate Minimal
[Dilatation TGLS = 1-6.2]			
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Cyst	
	Renal Tubule	Mineralization Mineralization Nephropathy	Minimal Mild Minimal
[Cyst TGLS = 7,10-2]			
Liver		Vacuolization Cytoplasmic	Moderate
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
	Alveolus	Hyperplasia Lactation	Mild Mild
[Adenocarcinoma TGLS = 2-5.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 393	TRT#: 15	SEX: Female	DAY ON TEST: 661
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300393
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Cyst	
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 9-5.2]			
Spleen		Pigmentation	Moderate
Thyroid Gland		Cyst	Squamous, Minimal
Uterus			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Vagina		Inflammation	Mild
[Inflammation TGLS = 4-6.2]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 394

TRT#: 7

SEX: Female

DAY ON TEST: 705

DOSE: F1 500PPM/CTL

DISP: Natural Death

HISTO: 21320300394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Vagina		

MISSING

Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 2-8]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Cyst	
	Renal Tubule	Mineralization	Minimal
		Mineralization	Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 7 ON SLIDE # 2A(2.1)			
[Cyst TGLS = 7-2+2.1]			
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 5,6,8-10.2+10+10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 1-12]			
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4-5.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 394	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 705 HISTO: 21320300394
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
Urin Bladder	Note: PATHOLOGIST NOTED: RECUTS ATTEMPTED		
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 395	TRT#: 2	SEX: Female	DAY ON TEST: 708
	DOSE: F1 5PPM	DISP: Natural Death	HISTO: 21320300395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Ovary	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Bone Marrow		Hypocellularity	Moderate
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 3-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 01 & 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 5-5.3]			
Spleen		Pigmentation	Minimal
Thymus		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 395	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 708 HISTO: 21320300395
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland Uterus	Follicular Cel	Atrophy Hyperplasia	Mild Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 397	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 710 HISTO: 21320300397
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Mild
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 12-8]			
Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
[Cardiomyopathy TGLS = 7-1]			
Kidney	Renal Tubule	Mineralization Nephropathy	Mild Moderate
[Nephropathy TGLS = 5,17-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Moderate
	Popliteal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 10-13]			
[Hyperplasia TGLS = 9-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 397	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 710 HISTO: 21320300397
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric [Hyperplasia TGLS = 15-9.1]		Hyperplasia	Lymphoid, Moderate
Mammary Gland [Fibroadenoma TGLS = 1-5.1]		Fibroadenoma Lactation	Mild
Ovary		Atrophy Hyperplasia	Moderate Stromal, Mild
Pancreas Parathyroid Gland Note: TGL # 16 - NO MICROSCOPIC CORRELATE	Acinar Cell	Degeneration	Moderate
Pituitary Gland [Adenoma TGLS = 13-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 14-5.2]	Foot	Inflammation	Chronic, Marked
Spleen Stomach, Forestomach Thymus Note: PATHOLOGIST NOTED: RECUT-REEMBED ATTEMPTED		Hematopoietic Cell Proliferation Inflammation	Minimal Minimal
Uterus [Hyperplasia TGLS = 3-6.1]		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			
Animal Note: TGL # 06 & # 11 - No section taken (cavity)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 399

TRT#: 16

SEX: Female

DAY ON TEST: 664

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Brain - Cerebrum	* Clitoral Gland	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Mammary Gland	* Nose
* Ovary	Oviduct	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Moderate
* Brain	Brain Stem	Compression	Minimal
* Harderian Gland		Hypertrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 4-12]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Mammary Gland			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 12			
* Pancreas	Acinar Cell	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 2,3-5.1]			
* Spleen		Pigmentation	Mild
* Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 404	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 709 HISTO: 21320300404
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Carcinoma	
		Hypertrophy	Mild
[Carcinoma TGLS = 6-3]			
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Mild
[Inflammation TGLS = 3-6.1]			
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 7-2]			
Liver		Angiectasis	Mild
		Tension Lipidosis	Mild
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
[Angiectasis TGLS = 8-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2,4-5.1+5.2+5]			
Ovary		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 404	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 709 HISTO: 21320300404
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma			
Animal Note: Pathologist noted: Tooth, malformation on Slide # 11			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 405	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 709 HISTO: 21320300405
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 6-3]		Degeneration	Cystic, Moderate
Brain Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Kidney Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Liver Note: TGL # 07 - NO MICROSCOPIC CORRELATE		Inflammation	Chronic Active, Mild
Lymph Node, Mandibular [Infiltration Cellular TGLS = 10-12]		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 1,2-5.1+5.2]		Fibroadenoma Lactation	Multiple Minimal
Nose	Upper Molar	Inflammation	
Ovary [Cyst TGLS = 3-6]		Atrophy Cyst	Minimal
Pituitary Gland [Adenoma TGLS = 9-3]	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 405	TRT#: 6	SEX: Female	DAY ON TEST: 709
	DOSE: F1 100PPM/CTL	DISP: Moribund	HISTO: 21320300405
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 8-5.3]			
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 406	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 710 HISTO: 21320300406
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric	Nose
Ovary	Oviduct	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver		Developmental Malformation	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
Note: TGL # 10 - NO MICROSCOPIC CORRELATE			
[Developmental Malformation TGLS = 12-5.1]			
[Eosinophilic Focus TGLS = 11-5.1]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
	Renal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
[Infiltration Cellular TGLS = 5-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 406	TRT#: 2	SEX: Female	DAY ON TEST: 710
	DOSE: F1 5PPM	DISP: Moribund	HISTO: 21320300406
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 1,2-5.2+5.3]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 8,9-5.4+5.5]			
Thymus			
Note: PATHOLOGIST NOTED: MEDIASTINAL AREA PRESENT			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 411

TRT#: 18

SEX: Female

DAY ON TEST: 665

DOSE: F3 500PPM TOCTL

DISP: Moribund

HISTO: 21320300411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
[Degeneration TGLS = 4-3]			
Clitoral Gland		Inflammation	Minimal
Eye			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 411	TRT#: 18	SEX: Female	DAY ON TEST: 665
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300411
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Hyperplasia TGLS = 5-3]	Pars Distalis	Hyperplasia	Mild
Uterus [Hyperplasia TGLS = 3-6.1]		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 412	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 665 HISTO: 21320300412
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Minimal
[Degeneration TGLS = 5-3]			
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 6,7-5.3+5.4]			
Uterus		Metaplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 412	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 665 HISTO: 21320300412
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 414	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 668 HISTO: 21320300414
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			
MISSING			
Esophagus			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy Inflammation	Cystic, Moderate Moderate Moderate
Clitoral Gland [Inflammation TGLS = 4-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver		Clear Cell Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland [Fibroadenoma TGLS = 1,2,3-5.1+5.2+5.3]		Fibroadenoma	Multiple
Ovary		Atrophy Hyperplasia	Mild Stromal, Mild
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 414	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 668 HISTO: 21320300414
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 415	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 667 HISTO: 21320300415
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Moderate
Brain	Brain Stem	Compression	Mild
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node [Infiltration Cellular TGLS = 4-13]	Lumbar	Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland [Fibroadenoma TGLS = 1-5.1]		Fibroadenoma	
Ovary		Atrophy	Minimal
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 6,7-5.2+5.3]	Foot	Inflammation	Chronic, Marked
Thymus		Atrophy	Mild
		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:57

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 415	TRT#: 18	SEX: Female	DAY ON TEST: 667
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300415
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Metaplasia	Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 416	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 669 HISTO: 21320300416
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Marked
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
[Cyst TGLS = 13-2]			
Liver		Inflammation	Chronic Active, Minimal
Lung		Squamous Cell Carcinoma	Metastatic (Skin)
[Squamous Cell Carcinoma TGLS = 8,9,10,11,12-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
	Renal	Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 3-13]			
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 416	TRT#: 18	SEX: Female	DAY ON TEST: 669
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300416
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
		Squamous Cell Carcinoma	
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
[Inflammation TGLS = 7-5.4]			
[Squamous Cell Carcinoma TGLS = 1-5.1]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: RECUR-REEMBED ATTEMPTED			
PRIMARY CAUSE OF DEATH	- Skin	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:57
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 417	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 710 HISTO: 21320300417
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Blood Vessel

OBSERVATIONS

Adrenal Cortex		Angiectasis	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-6.2]		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
		Hypertrophy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Inguinal	Infiltration Cellular	Plasma Cell, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 8-5.1]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 417	TRT#: 1	SEX: Female	DAY ON TEST: 710
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300417
ORGAN AND ACCOUNTABLE SITE STATUS			
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Note: TGL # 08 - NOTED GROSSLY AS MAMMARY GLAND WAS LYMPH NODE, INGUINAL			
Nose	Upper Molar	Inflammation	
Ovary		Atrophy	Marked
		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 7-5.2]			
Thymus		Thymoma Malignant	
[Thymoma Malignant TGLS = 3-1]			
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 418	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 711 HISTO: 21320300418
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Mild
[Degeneration TGLS = 10-3]			
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 15-8]			
Clitoral Gland		Hyperplasia Squamous Cell Papilloma	Mild
[Squamous Cell Papilloma TGLS = 3-6.2]			
Eye	Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration Hypertrophy	Minimal Mild
Kidney	Pelvis	Mineralization	Moderate
	Renal Tubule	Mineralization Nephropathy	Mild Minimal
[Nephropathy TGLS = 11-2]			
Liver		Degeneration Hyperplasia	Cystic, Minimal Minimal
[Degeneration TGLS = 12-5]	Bile Duct		
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 13-10+10.1]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 418	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 711 HISTO: 21320300418
ORGAN AND ACCOUNTABLE SITE STATUS			
	Pancreatic	Pigmentation	Moderate
[Infiltration Cellular TGLS = 9-13]			
[Pigmentation TGLS = 6-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 2-5.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Carcinoma	
Note: PATHOLOGIST NOTED: PITUITARY GLAND, CARCINOMA ON SLIDE # 3, 8, 8A(8.1)			
[Carcinoma TGLS = 14-3+8+8.1]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 16-5.2]			
Spleen	Red Pulp	Atrophy	Mild
		Pigmentation	Moderate
[Atrophy TGLS = 5-5]			
Stom Gland			
Note: TGL # 07 - NOTED GROSSLY AS STOMACH, GLANDULAR WAS STOMACH, FORESTOMACH			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Stomach, Forestomach		Keratin Cyst	
[Keratin Cyst TGLS = 7-9]			
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4,17-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 420

TRT#: 1

SEX: Female

DAY ON TEST: 715

DOSE: F1 0 PPM

DISP: Natural Death

HISTO: 21320300420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Nose
Oviduct	Parathyroid Gland	Pituitary Gland	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

AUTO PRECLUDES DIAG.

Intestine Small, Ileum

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy Lymphoma Malignant	Cystic, Minimal Mild
[Degeneration TGLS = 2-3]			
Clitoral Gland	Parenchym Cell	Degeneration Inflammation Accumulation, Hyaline Droplet Lymphoma Malignant	Moderate Moderate Moderate
Kidney			
Liver			
[Lymphoma Malignant TGLS = 3-5]			
Lung		Lymphoma Malignant	
Lymph Node	Lumbar Renal	Lymphoma Malignant Lymphoma Malignant Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-13]			
[Lymphoma Malignant TGLS = 6-13.1]			
Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-9]			
Mammary Gland		Fibroadenoma	
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 6A(6.1)			
Ovary		Cyst Hyperplasia	Stromal, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 420	TRT#: 1	SEX: Female	DAY ON TEST: 715
	DOSE: F1 0 PPM	DISP: Natural Death	HISTO: 21320300420
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas		Lymphoma Malignant	
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 09			
Salivary Glands		Atrophy	Mild
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5,9-5.3+5.2]			
Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-5.1]			
Stomach, Forestomach		Ulcer	Mild
Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-1]			
PRIMARY CAUSE OF DEATH	- Spleen	Lymphoma Malignant	
Animal Note: Pathologist noted: Mesentery, Lymph Mal located on slide # 9			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 421	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Moribund	DAY ON TEST: 716 HISTO: 21320300421
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Minimal
[Degeneration TGLS = 2-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Clitoral Gl			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Moderate
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen		Pigmentation	Mild
Uterus		Hemorrhage	Minimal
[Hemorrhage TGLS = 5-6.1]			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 422	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 717 HISTO: 21320300422
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Mild
Brain			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
Note: TGL # 08 - NO MICROSCOPIC CORRELATE [Hepatodiaphragmatic Nodule TGLS = 7-5]			
Lung			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	Multiple
		Atypical Focus	
		Lactation	Mild
[Adenocarcinoma TGLS = 1,2,11,12-5.1+5.2+5.3+12]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 422	TRT#: 1	SEX: Female	DAY ON TEST: 717
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300422

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 10-3]		
Saliv Glands		
Note: TGL # 12 - NOTED GROSSLY AS SALIVARY GLAND WAS MAMMARY GLAND		
Skin		
Note: TGL # 11 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND		
Spleen	Hematopoietic Cell Proliferation	Moderate
	Pigmentation	Mild
[Hematopoietic Cell Proliferation TGLS = 6-5]		
Stomach, Forestomach	Hyperplasia	Mild
[Hyperplasia TGLS = 13-9]		
Thymus	Atrophy	Minimal
Thyroid Gland	Cyst	Squamous, Minimal
Uterus	Inflammation	Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE		
PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma		
Animal Note: TGL # 04 - No section taken (cavity)		
Animal Note: Pathologist noted: Bone, Cranium, osteopetrosis, mild, located on slide # 11		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 423

TRT#: 17

SEX: Female

DAY ON TEST: 674

DOSE: F3 100PPM TO CTL

DISP: Moribund

HISTO: 21320300423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 3-2]			
Liver		Cyst	
	Bile Duct	Hyperplasia	Minimal
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
[Cyst TGLS = 5-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 423	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 674 HISTO: 21320300423
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 8-5.3]	Foot	Inflammation	Chronic, Moderate
Spleen		Pigmentation	Moderate
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 424

TRT#: 3

SEX: Female

DAY ON TEST: 721

DOSE: F1 100PPM

DISP: Natural Death

HISTO: 21320300424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Nose
Ovary	Oviduct	Pancreas	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Moderate
[Degeneration TGLS = 9-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 7-8]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
[Degeneration TGLS = 4-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5.1+5.2]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 424	TRT#: 3	SEX: Female	DAY ON TEST: 721
	DOSE: F1 100PPM	DISP: Natural Death	HISTO: 21320300424
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 8-5.3]			
Spleen		Pigmentation	Mild
Thymus		Hemorrhage	Mild
Uterus		Polyp Stromal	
		Sarcoma Stromal	
[Polyp Stromal TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 425	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 720 HISTO: 21320300425
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Islets, Pancreatic	Oviduct	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 2-3]		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Lens	Cataract	Mild
Harderian Gland	Epithelium	Degeneration	Mild
		Hypertrophy	Mild
Kidney	Renal Tubule	Mineralization	Mild
Liver		Necrosis	Moderate
Lung [Infiltration Cellular TGLS = 4,5-10+10.1]		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 1,3-5.1+5.2]		Fibroadenoma	Multiple
Nose	Upper Molar	Inflammation	
Ovary		Atrophy	Minimal
Spleen	Lymphocyte	Atrophy	Moderate
		Hematopoietic Cell Proliferation	Moderate
Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH	- Mammary Gland	Fibroadenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 425	TRT#: 6	SEX: Female	DAY ON TEST: 720
	DOSE: F1 100PPM/CTL	DISP: Natural Death	HISTO: 21320300425

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 426	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 678 HISTO: 21320300426
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
Oviduct	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
* Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 10-8]			
Clitoral Gland		Inflammation	Minimal
[Inflammation TGLS = 1-6.2]			
* Harderian Gland		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Mild
* Int Lg Rectum			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 6B(6.2)			
* Kidney		Hydronephrosis	Moderate
[Hydronephrosis TGLS = 9-2]			
* Liver	Biliar Tract	Fibrosis	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 2,3,4-5.1+5.2+5.3]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 426	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 678 HISTO: 21320300426
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas	Acinar Cell	Degeneration	Minimal
* Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
* Skin [Inflammation TGLS = 7,8-5.4+5.5]	Foot	Inflammation	Chronic, Marked
* Thymus [Cyst TGLS = 5-1]		Atrophy Cyst	Mild Marked
Uterus		Hyperplasia Metaplasia	Cystic, Minimal Minimal
Vagina			
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 9A(9.1)			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 427	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Moribund	DAY ON TEST: 723 HISTO: 21320300427
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Moderate
	Cerebrum	Hydrocephalus	Minimal
[Compression TGLS = 9-8]			
Clitoral Gland	Duct	Dilatation	Minimal
[Dilatation TGLS = 1-6.2]			
Harderian Gland		Hypertrophy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
[Nephropathy TGLS = 6-2]			
Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 5-5.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
	Alveolus	Hyperplasia	Moderate
		Lactation	Mild
[Adenocarcinoma TGLS = 2-5.3]			
[Fibroadenoma TGLS = 3-5.2]			
Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 427	TRT#: 7	SEX: Female	DAY ON TEST: 723
	DOSE: F1 500PPM/CTL	DISP: Moribund	HISTO: 21320300427
ORGAN AND ACCOUNTABLE SITE STATUS			
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 4-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 8-5.4]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Mild
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 428

TRT#: 18

SEX: Female

DAY ON TEST: 676

DOSE: F3 500PPM TOCTL

DISP: Natural Death

HISTO: 21320300428

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

* Adrenal Cortex

* Adrenal Medulla

Blood Vessel

* Bone Marrow

Bone, Femur

* Brain - Brain Stem

* Brain - Cerebellum

* Brain - Cerebrum

* Clitoral Gland

* Esophagus

* Eye

* Harderian Gland

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Kidney

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Nose

* Ovary

Oviduct

* Pancreas

* Parathyroid Gland

* Salivary Glands

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

Vagina

OBSERVATIONS

* Mammary Gland

Fibroadenoma

Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN

[Fibroadenoma TGLS = 2-5.1]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

* Skin

Foot

Inflammation

Chronic, Mild

Sarcoma

[Inflammation TGLS = 4-5.2]

[Sarcoma TGLS = 1-5]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Pathologist noted : Only TGL`s processed due to advanced autolysis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 429

TRT#: 1

SEX: Female

DAY ON TEST: 723

DOSE: F1 0 PPM

DISP: Moribund

HISTO: 21320300429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

MISSING

Lymph Node, Mandibular

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 6-3]			
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 9-8]			
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lym Node Mand			
Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: RECUTS ATTEMPTED			
Lymph Node			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE (LYMPH NODE, HEMAL)			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE (LYMPH NODE, PANCREATIC)			
Note: PATHOLOGIST NOTED: LYMPH NODE, PANCREATIC-MISSING (RECUTS ATTEMPTED)			
Note: TGL # 07 - NOTED GROSSLY AS LYMPH NODE, MEDIASTINAL WAS LYMPH NODE, HEMAL			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 2-5.2]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 429	TRT#: 1	SEX: Female	DAY ON TEST: 723
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300429
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
[Atrophy TGLS = 4-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 8-5.3]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Moderate
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 431	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 677 HISTO: 21320300431
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
MISSING			
Intestine Large, Rectum	Thymus		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 8-8]			
Clitoral Gland		Fibrous Histiocytoma	Metastatic (Skin)
Harderian Gl			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Int Lg Rectum			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Kidney		Accumulation, Hyaline Droplet	Marked
	Renal Tubule	Mineralization	Mild
[Accumulation, Hyaline Droplet TGLS = 3-2]			
Liver		Fibrous Histiocytoma	Metastatic (Skin)
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lung		Fibrous Histiocytoma	Metastatic (Skin)
[Fibrous Histiocytoma TGLS = 9,10-10]			
Lymph Node	Lumbar	Fibrous Histiocytoma	Metastatic (Skin)
[Fibrous Histiocytoma TGLS = 5-13]			
Lymph Node, Mandibular		Hemorrhage	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 431	TRT#: 15	SEX: Female	DAY ON TEST: 677
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300431
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hemorrhage TGLS = 11-12] Lymph Node, Mesenteric Mammary Gland Ovary Pancreas Pituitary Gland [Adenoma TGLS = 7-3] Skin [Fibrous Histiocytoma TGLS = 1-5.1] [Inflammation TGLS = 2-5.2] Thymus Note: PATHOLOGIST NOTED: RECUR-REEMBED ATTEMPTED Uterus		Infiltration Cellular	Plasma Cell, Mild
		Inflammation	Granulomatous, Mild
		Hyperplasia	Moderate
		Atrophy	Mild
	Acinar Cell	Degeneration	Minimal
	Pars Distalis	Adenoma	
		Fibrous Histiocytoma	
	Foot	Inflammation	Chronic, Mild
		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Skin Fibrous Histiocytoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 432

TRT#: 16

SEX: Female

DAY ON TEST: 677

DOSE: F3 5PPM TO CTL

DISP: Moribund

HISTO: 21320300432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node, Mandibular	Salivary Glands	Thymus
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Minimal
[Dilatation TGLS = 1-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
		Hypertrophy	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Cyst	
		Inflammation	Minimal
Liver	Biliar Tract	Fibrosis	Minimal
		Hematopoietic Cell Proliferation	Minimal
Lym Node Mand			
Note: PATHOLOGIST NOTED: LYM NODE, MAND MISSING AT TRIM DUE TO TGL # 5 SKIN,MASS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 5-5.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 432	TRT#: 16	SEX: Female	DAY ON TEST: 677
	DOSE: F3 5PPM TO CTL	DISP: Moribund	HISTO: 21320300432
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Saliv Glands	Note: PATHOLOGIST NOTED: SALIVARY GLANDS MISSING AT TRIM DUE TO TGL # 5 SKIN, MASS		
Skin			
Note: TGL # 05 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-5]			
Thymus	Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED		
Vagina			
		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 433

TRT#: 5

SEX: Female

DAY ON TEST: 724

DOSE: F1 5PPM/CTL

DISP: Moribund

HISTO: 21320300433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Moderate
[Degeneration TGLS = 4-3]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
Eye	Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Mild
[Degeneration TGLS = 6-11.1]			
Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Mineralization Nephropathy	Moderate Moderate
[Nephropathy TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Moderate
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 1-6]		Hyperplasia	Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 433	TRT#: 5	SEX: Female	DAY ON TEST: 724
	DOSE: F1 5PPM/CTL	DISP: Moribund	HISTO: 21320300433
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland		Hyperplasia	Focal, Mild
Pituitary Gl			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: MISSING AT EMBEDDING			
Spleen	Lymphocyte	Atrophy	Minimal
		Pigmentation	Mild
[Atrophy TGLS = 3-5]			
Thymus		Cyst	Moderate
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH		- UNCERTAIN	
Animal Note: Pathologist noted: COD gross diagnosis - Pituitary neoplasm, micro diagnosis - Pituitary Gland, adenoma; Pituitary Gland lost at embedding			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 439

TRT#: 4

SEX: Female

DAY ON TEST: 726

DOSE: F1 500PPM

DISP: Natural Death

HISTO: 21320300439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Minimal
[Degeneration TGLS = 3-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Minimal
Esophagus			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 10			
Kidney	Renal Tubule	Mineralization Nephropathy Metaplasia	Mild Mild Moderate
Lacrimal Gland			
[Metaplasia TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Note: TGL # 01 - NO SECTION TAKEN			
Nose	Nasolacrim Dct	Inflammation Squamous Cell Carcinoma	Mild
Ovary		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 439	TRT#: 4	SEX: Female	DAY ON TEST: 726
	DOSE: F1 500PPM	DISP: Natural Death	HISTO: 21320300439
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4,5-5.1+5.2]			
Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Moderate
Thymus		Atrophy	Moderate
Thyroid Gland		Cyst	Squamous, Mild
PRIMARY CAUSE OF DEATH	- Nose	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 442	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 683 HISTO: 21320300442
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone	Bone Marrow
Bone, Femur	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 4-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Focal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
		Lactation	Minimal
Ovary		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 2-5.1]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 442	TRT#: 17	SEX: Female	DAY ON TEST: 683
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300442
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 444

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: F1 5PPM

DISP: Natural Death

HISTO: 21320300444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Islets, Pancreatic
Lung	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Eye	Bilateral, Lens	Cataract	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Mild
		Cyst	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 445	TRT#: 3	SEX: Female	DAY ON TEST: 731
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 4-6.2]			
Kidney	Pelvis	Mineralization	Minimal
Liver		Inflammation	Chronic Active, Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Nose	Upper Molar	Inflammation	
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 445	TRT#: 3	SEX: Female	DAY ON TEST: 731
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300445
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
Animal Note: Pathologist noted: Tooth, malformation			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 450

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: F1 100PPM/CTL

DISP: Natural Death

HISTO: 21320300450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Basophilic Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 1-5.1]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.2]			
Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Moderate
Thymus		Atrophy	Marked
Vagina		Inflammation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 451

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: F1 100PPM

DISP: Natural Death

HISTO: 21320300451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Islets, Pancreatic	Liver
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 5-8]			
Eye	Bilateral, Lens	Cataract	Mild
Kidney	Renal Tubule	Mineralization	Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.1]		Lactation	Mild
Ovary		Atrophy	Minimal
[Cyst TGLS = 3-6]		Cyst	
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 451	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 731 HISTO: 21320300451
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen	Lymphocyte	Atrophy Pigmentation	Mild Mild
Thymus	C Cell	Atrophy	Moderate
Thyroid Gland		Adenoma	
Vagina		Inflammation	Minimal
[Inflammation TGLS = 2-6.2]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 452	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Natural Death	DAY ON TEST: 689 HISTO: 21320300452
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Nose	Oviduct	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Compression Hydrocephalus	Cystic, Moderate Moderate Moderate Mild
* Brain	Brain Stem Cerebrum		
[Compression TGLS = 8-8]			
* Clitoral Gland		Inflammation	Minimal
[Inflammation TGLS = 2-6.2]			
* Harderian Gland	Epithelium	Degeneration Cardiomyopathy	Mild Minimal
* Heart		Mineralization Mineralization Nephropathy	Minimal Mild Minimal
* Kidney	Pelvis Renal Tubule		
* Liver			
Note: TGL # 03 & 04 - NO SECTION TAKEN			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 5-13]			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Mammary Gland		Fibroadenoma Lactation	Mild
[Fibroadenoma TGLS = 1-5.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 452	TRT#: 18	SEX: Female	DAY ON TEST: 689
	DOSE: F3 500PPM TOCTL	DISP: Natural Death	HISTO: 21320300452
ORGAN AND ACCOUNTABLE SITE STATUS			
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 10,11-5.2+5.3]			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
Animal Note: TGL # 06 & # 09 - No section taken (Cavity)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 453

TRT#: 1

SEX: Female

DAY ON TEST: 731

DOSE: F1 0 PPM

DISP: Moribund

HISTO: 21320300453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Clitoral Gland		Inflammation	Mild
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 6-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
Note: TGL # 04 & 09 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			
[Fibroadenoma TGLS = 1,2,3-5.1+5.2+5.3]			
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland		Cyst	
Skin	Foot	Inflammation	Chronic, Moderate
		Lipoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 453	TRT#: 1	SEX: Female	DAY ON TEST: 731
	DOSE: F1 0 PPM	DISP: Moribund	HISTO: 21320300453
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: SQUAMOUS CELL CARCINOMA ALSO LOCATED ON SLIDE # 11		Squamous Cell Carcinoma	
[Inflammation TGLS = 8-5.6]			
[Lipoma TGLS = 4-5.4]			
[Squamous Cell Carcinoma TGLS = 7,9-5.5+5.7]			
Spleen		Hematopoietic Cell Proliferation	Mild
PRIMARY CAUSE OF DEATH	- Skin	Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 454	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 686 HISTO: 21320300454
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 3-6.2]			
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild

Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 1 ON SLIDE # 5D(5.4)
[Fibroadenoma TGLS = 1,2-5.4+5.2]

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 454	TRT#: 17	SEX: Female	DAY ON TEST: 686
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300454
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 8-6.3]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 6-5.3]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stomach, Forestomach		Hyperplasia	Moderate
		Ulcer	Marked
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 7 ON SLIDE # 9B(9.2)			
[Ulcer TGLS = 7-9.2]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 455	TRT#: 18	SEX: Female	DAY ON TEST: 686
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Oviduct	Pancreas	Parathyroid Gland
Pituitary Gland	Stomach, Glandular	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Bone Marrow		Hypocellularity	Moderate
Brain	Cerebrum	Granular Cell Tumor Benign	
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver		Vacuolization Cytoplasmic	Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenoma	
	Alveolus	Fibroadenoma	
		Hyperplasia	Mild
		Lactation	Mild
[Adenoma TGLS = 1-5.1]			
[Fibroadenoma TGLS = 2-5.2]			
Nose	Upper Molar	Inflammation	
Ovary		Hyperplasia	Stromal, Moderate
Pituitary Gl			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Salivary Glands		Atrophy	Moderate
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 6-5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 455	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 686 HISTO: 21320300455
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen	Lymphocyte	Atrophy	Moderate
		Pigmentation	Marked
Stomach, Forestomach		Hyperplasia	Minimal
Thymus		Atrophy	Marked
		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Mild
Vagina		Inflammation	Moderate
[Inflammation TGLS = 4-6.2]			
PRIMARY CAUSE OF DEATH	- Brain Cerebrum Granular Cell Tumor Benign		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 456	TRT#: 17	SEX: Female	DAY ON TEST: 688
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Lung		Inflammation	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
[Degeneration TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-5.1]			
Vagina			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 456	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 688 HISTO: 21320300456
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 481	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300481
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.2]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Pigmentation	Mild
Thymus		Atrophy	Mild
	Epithel Cell	Hyperplasia	Mild
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Minimal

Note: TGL # 03 - NOTED GROSSLY AS UTERUS WAS VAGINA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 481	TRT#: 1	SEX: Female	DAY ON TEST: 737
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300481
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 4-6.1]			
Vagina		Keratin Cyst	Mild
[Keratin Cyst TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 482	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300482
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 5-2]			
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 482	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300482
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	C Cell	Cyst	Mild
Uterus		Adenoma	
		Hyperplasia	Cystic, Minimal
		Metaplasia	Minimal
		Polyp Stromal	
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 483	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-13]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 483	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300483
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 484

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Moderate
Brain	Cerebellum	Granular Cell Tumor Benign	
Clitoral Gland	Parenchym Cell	Degeneration Inflammation	Mild Mild
[Inflammation TGLS = 3-6.2]			
Eye	Lens	Cataract Phthisis Bulbi	Minimal
[Phthisis Bulbi TGLS = 9-11.1]			
Harderian Gland		Squamous Cell Carcinoma	Metastatic (Nose)
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Cyst Mineralization Nephropathy	Mild Minimal
[Cyst TGLS = 13-2]			
[Nephropathy TGLS = 6-2]			
Liver	Bile Duct	Hyperplasia Vacuolization Cytoplasmic	Minimal Minimal
Lung		Squamous Cell Carcinoma	Metastatic (Nose)
Lymph Node	Pancreatic	Hemorrhage	Minimal
[Hemorrhage TGLS = 4-13.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 484	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300484
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular [Infiltration Cellular TGLS = 2-12]		Degeneration Infiltration Cellular	Cystic, Moderate Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus Fibroadenoma	Multiple Moderate
	Alveolus	Hyperplasia Lactation	Moderate
[Fibroadenoma TGLS = 1,5,8-5.4+5.2+5.3]			
Nose Note: PATHOLOGIST NOTED: TGL # 12 ALSO LOCATED ON SLIDE # 11 [Squamous Cell Carcinoma TGLS = 12-11+13]		Squamous Cell Carcinoma	
Ovary		Atrophy	Marked
Pituitary Gland [Adenoma TGLS = 10-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 11-13.1]	Foot	Inflammation	Chronic, Moderate
Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
Thymus Note: TGL # 07 - NO MICROSCOPIC CORRELATE Note: PATHOLOGIST NOTED: RECUTS ATTEMPTED			
Thyroid Gland		Cyst	Squamous, Minimal
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 12 - Noted grossly as Tissue NOS, tooth was Nose			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 485

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
		Hypertrophy	Mild
Clitoral Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Infarct	Minimal
	Renal Tubule	Mineralization	Minimal
Lacrimal Gland		Metaplasia	Mild
[Metaplasia TGLS = 2-13]			
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 485	TRT#: 2	SEX: Female	DAY ON TEST: 737
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300485
ORGAN AND ACCOUNTABLE SITE STATUS			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-13.2]			
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 3-6]		Hyperplasia	Stromal, Moderate
Oviduct			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 6C(6.3)			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 7-13.3]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 486	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 21320300486
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 4-3]			
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Basophilic Focus	
		Tension Lipidosis	Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 6 ON SLIDE # 5F(5.6)			
[Basophilic Focus TGLS = 7-5.4]			
[Tension Lipidosis TGLS = 6-5.6]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
[Degeneration TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 486	TRT#: 2	SEX: Female	DAY ON TEST: 736
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300486
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 487	TRT#: 2	SEX: Female	DAY ON TEST: 737
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
Adrenal Medulla		Pheochromocytoma Benign	
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Moderate
[Cyst TGLS = 1-2]			
Liver	Biliar Tract	Fibrosis	Mild
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Minimal
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 2-5]			
Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 487	TRT#: 2	SEX: Female	DAY ON TEST: 737
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300487

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus
Note: PATHOLOGIST NOTED: AREA TRIMMED

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 488	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300488
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Mammary Gland	Nose
Ovary	Oviduct	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Minimal
[Inflammation TGLS = 2-6.2]			
Eye	Bilateral, Retina	Degeneration	Moderate
Kidney	Pelvis	Mineralization	Minimal
Liver		Inflammation	Chronic Active, Minimal
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Ovary			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Pancreas	Acinar Cell	Degeneration	Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Vagina		Granular Cell Tumor Benign	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 489	TRT#: 3	SEX: Female	DAY ON TEST: 737
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Ovary	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 1-6.2]			
Eye	Retina	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 2-5]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 490	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300490
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Nose
Ovary	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Liver	Biliar Tract	Fibrosis	Minimal
		Tension Lipidosis	Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 6 ON SLIDE # 5E(5.5)			
[Tension Lipidosis TGLS = 6-5.5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 490	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300490
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Minimal
Uterus		Pigmentation	Minimal
[Polyp Stromal TGLS = 4-6.1]		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 491

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland		Inflammation	Mild
Intest Large			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Intestine Small		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 5-9.3]			
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Lactation	Mild
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Uterus			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 491	TRT#: 6	SEX: Female	DAY ON TEST: 737
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300491
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 492

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Heart		Cardiomyopathy	Minimal
Int Lg Cecum			
Note: PATHOLOGIST NOTED: NORMAL PEYER'S PATCH			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 4-2]			
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 1-5.2]			
Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 492	TRT#: 6	SEX: Female	DAY ON TEST: 737
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300492
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Hyperplasia	Stromal, Mild
Salivary Glands	Submandibul GI	Adenoma	
Skin	Foot	Inflammation	Minimal
		Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.3]			
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 493	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300493
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver		Basophilic Focus	
		Cyst	
Note: PATHOLOGIST NOTED: TGL # 4 ON SLIDE # 5, NOT SLIDE # 5E(5.5)			
[Cyst TGLS = 3,4-5.4+5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5.2+5.3]			
Ovary		Atrophy	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-5.6]			
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 494	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300494
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 4-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 6-8]	Brain Stem	Compression	Mild
Clitoral Gland	Parenchym Cell	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Kidney [Cyst TGLS = 3-2]	Pelvis	Cyst	
		Mineralization	Mild
		Nephropathy	Mild
Liver [Degeneration TGLS = 2-5.2]	Bile Duct	Degeneration	Cystic, Minimal
		Hyperplasia	Mild
Lung [Infiltration Cellular TGLS = 9-10]		Infiltration Cellular	Histiocyte, Minimal
Lymph Node [Infiltration Cellular TGLS = 5-13]	Mediastinal	Hemorrhage	Mild
	Mediastinal	Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 494	TRT#: 7	SEX: Female	DAY ON TEST: 737
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300494
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Lactation	Minimal
		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 1-6]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 8-5.3]			
Spleen		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 495	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300495
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 4-8]	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Moderate
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver [Eosinophilic Focus TGLS = 6-5.3]		Basophilic Focus Eosinophilic Focus Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular [Infiltration Cellular TGLS = 1-12]		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 2-5.2]		Fibroadenoma Lactation	Mild
Ovary		Atrophy	Moderate
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 495	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300495
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Cyst	Mild
Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 496

TRT#: 5

SEX: Female

DAY ON TEST: 737

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Mild
[Degeneration TGLS = 4-3]			
Eye	Bilateral, Lens	Cataract	Minimal
Heart		Cardiomyopathy	Minimal
Int Lg Cecum			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Kidney		Cyst	
	Renal Tubule	Mineralization	Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2,3-13.2+13+13.1]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Marked
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 496	TRT#: 5	SEX: Female	DAY ON TEST: 737
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300496

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 6-5]		
Spleen	Pigmentation	Mild
Thymus	Cyst	Mild
Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 5-6.1]		

PRIMARY CAUSE OF DEATH	-
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Animal Note: TGL # 03 - Noted grossly as Lymph Node, Deep Cervical was Mammary Gland

Animal Note: TGL # 01 - Noted grossly as Lymph Node, Thoracic was Mammary Gland

Animal Note: TGL # 02 - Noted grossly as Lymph Node, Lumbar was Mammary Gland

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 497	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300497
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Compression	Moderate
Brain [Compression TGLS = 5-8]	Brain Stem		
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Mild
Liver	Biliar Tract	Fibrosis	Moderate
Lymph Node, Mandibular [Infiltration Cellular TGLS = 1-12]		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 3-5.2]	Foot	Inflammation	Chronic, Moderate
Spleen		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 497	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300497
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus [Atrophy TGLS = 6-1]	Epithel Cell	Atrophy Hyperplasia	Minimal Mild
Uterus [Sarcoma Stromal TGLS = 2-6.1]		Sarcoma Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 498

TRT#: 5

SEX: Female

DAY ON TEST: 737

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Oviduct	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
		Pheochromocytoma Benign	
Clitoral Gland		Inflammation	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Ovary		Cyst	
[Cyst TGLS = 1-6]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 3-5.2]			
Thyroid Gland		Cyst	Squamous, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 499	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 21320300499
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Vagina		
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Mild Mild Mild
[Degeneration TGLS = 3-3]			
Clitoral Gland	Duct	Dilatation Inflammation	Moderate Mild
Kidney	Pelvis	Mineralization	Mild
Liver		Basophilic Focus Necrosis	Minimal
[Necrosis TGLS = 5-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy Cyst	Moderate
[Cyst TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 499	TRT#: 2	SEX: Female	DAY ON TEST: 734
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300499
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5.2]			
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			
Urinary Bladder		Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 500	TRT#: 6	SEX: Female	DAY ON TEST: 733
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
[Degeneration TGLS = 3-3]			
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Moderate
Kidney		Cyst	
		Inflammation	Minimal
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 5-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 2-5]			
Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 500	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 21320300500
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 501	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Moribund	DAY ON TEST: 736 HISTO: 21320300501
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 2-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
		Lactation	Mild
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 1-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 4-5.1]			
Spleen		Pigmentation	Mild
Stomach, Forestomach		Ulcer	Mild
Thymus		Atrophy	Mild
Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 501	TRT#: 4	SEX: Female	DAY ON TEST: 736
	DOSE: F1 500PPM	DISP: Moribund	HISTO: 21320300501

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 527	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300527
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Nose	Oviduct
Pancreas	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Minimal Minimal
[Degeneration TGLS = 3-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Heart		Cardiomyopathy	Minimal
Int Lg Cecum			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Int Sm Duoden			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Kidney		Cyst Hydronephrosis	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 4-2]			
[Hydronephrosis TGLS = 7-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 527	TRT#: 1	SEX: Female	DAY ON TEST: 738
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300527
ORGAN AND ACCOUNTABLE SITE STATUS			
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 528	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300528
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Hypertrophy Compression	Cystic, Minimal Minimal Minimal Mild
Brain [Compression TGLS = 7-8]	Brain Stem		
Kidney [Cyst TGLS = 4-2]	Pelvis Renal Tubule	Cyst Mineralization Mineralization Nephropathy	Minimal Moderate Mild
Liver Note: TGL # 03 - NO MICROSCOPIC CORRELATE	Bile Duct	Hyperplasia Infiltration Cellular	Minimal Lymphocyte, Minimal
Lymph Node [Degeneration TGLS = 5-13] [Infiltration Cellular TGLS = 9-13.1]	Lumbar Popliteal	Degeneration Infiltration Cellular	Cystic, Moderate Plasma Cell, Moderate
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 528	TRT#: 3	SEX: Female	DAY ON TEST: 738
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300528
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 2-5.4]		Lactation	Minimal
Ovary		Atrophy	Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Atrophy	Moderate
[Atrophy TGLS = 8-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 529	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300529
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Uterus	Vagina		
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Clitoral Gland	Parenchym Cell	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Int Lg Cecum			
Note: PATHOLOGIST NOTED: NORMAL PEYERS PATCH			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Mild
		Lactation	Mild
[Fibroadenoma TGLS = 1,2-5.2+13]			
Ovary		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 529	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300529
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-5.3]			
Spleen		Pigmentation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: MEDIASTINAL AREA TRIMMED			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 02 - Noted grossly as Lymph Node, Deep Cervical was Mammary Gland			

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 530	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Marked Mild
[Degeneration TGLS = 2-3]			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 4 & 5 ON SLIDE # 10A(10.1)			
[Infiltration Cellular TGLS = 4,5-10+10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 531	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300531
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lacrimal Gland	Nose	Oviduct	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 5-2]			
Lacrimal Gland			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Liver		Basophilic Focus	
		Eosinophilic Focus	
		Vacuolization Cytoplasmic	Minimal
[Eosinophilic Focus TGLS = 4-5.4]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-10]			
Lymph Node	Popliteal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 7-13.1]			
Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 531	TRT#: 3	SEX: Female	DAY ON TEST: 738
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300531
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 3-5.2]		Lactation	Minimal
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 9-5.3]			
Spleen		Hematopoietic Cell Proliferation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 532	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300532
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Oviduct	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
		Inflammation	Moderate
Clitoral Gland			
[Inflammation TGLS = 1-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
[Cyst TGLS = 6-2]			
Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Focal
[Angiectasis TGLS = 2,3-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 5-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Hyperplasia	Stromal, Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 532	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300532
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 533	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300533
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Ovary
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			
OBSERVATIONS			
Clitoral Gland	Duct	Dilatation Inflammation	Mild Moderate
[Inflammation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Cyst Mineralization	Mild
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia Vacuolization Cytoplasmic Infiltration Cellular Inflammation Fibroma	Mild Minimal Plasma Cell, Mild Granulomatous, Mild
Lymph Node, Mandibular			
Lymph Node, Mesenteric			
Mammary Gland			
[Fibroma TGLS = 3-5]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5.2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 534	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300534
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Salivary Glands
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Angiectasis	Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Harderian Gland	Epithelium	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Lactation	Moderate
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 534	TRT#: 6	SEX: Female	DAY ON TEST: 738
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300534
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Stomach, Forestomach		Hyperplasia	Moderate
		Ulcer	Moderate
Thymus		Atrophy	Mild
		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 1-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 535	TRT#: 6	SEX: Female	DAY ON TEST: 738
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Nose	Oviduct
Pancreas	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Kidney	Renal Tubule	Adenoma	
		Cyst	
	Renal Tubule	Mineralization	Mild
[Adenoma TGLS = 3-2]			
[Cyst TGLS = 4,7-2]			
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Note: PATHOLOGIST NOTED: TGL # 2 LOCATED ON SLIDE # 5 AND MAMMARY WHOLE MOUNT		SLIDE # 5A(5.1)	
[Hyperplasia TGLS = 2-5+5.1]			
Ovary	Granulosa Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 535	TRT#: 6	SEX: Female	DAY ON TEST: 738
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300535
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 536	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300536
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Mild
[Degeneration TGLS = 5-3]			
Harderian Gland	Epithelium	Degeneration	Mild
Kidney	Pelvis	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 6-9.1]			
Mammary Gland		Galactoceles Lactation	Mild Minimal
[Galactoceles TGLS = 3-5.2]			
Nose	Upper Molar	Inflammation	
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1,2-5.3+5.4]			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 536	TRT#: 5	SEX: Female	DAY ON TEST: 738
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300536
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	
[Polyp Stromal TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 537	TRT#: 7	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Mild
[Dilatation TGLS = 2-6.2]			
Int Lg Cecum			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: NORMAL PEYERS PATCH			
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 7-5.2]			
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 3-6]			
Pancreas	Acinar Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 537	TRT#: 7	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300537
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.3]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Moderate
		Metaplasia	Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 538	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300538
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Nose
Oviduct	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Marked Minimal
[Degeneration TGLS = 7-3]			
Clitoral Gland	Duct	Dilatation Inflammation	Moderate Marked
[Inflammation TGLS = 1-6.2]			
Eye	Retina	Degeneration	Mild
Heart		Cardiomyopathy	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 9-2]			
Lacrimal Gland		Metaplasia	Minimal
[Metaplasia TGLS = 2-13]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild

Note: TGL # 04 - NO MICROSCOPIC CORRELATE (LYMPH NODE, PANCREATIC)

Note: PATHOLOGIST NOTED: LYMPH NODE, PANCREATIC NORMAL ON SLIDE # 13B(13.2)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 538	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300538
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 6-13.1]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 3-5.2]			
Ovary		Atrophy	Minimal
		Cyst	
[Cyst TGLS = 5-6]			
Pancreas		Polyarteritis	Minimal
Note: PATHOLOGIST NOTED: POLYARTERITIS LOCATED ON SLIDE # 13B(13.2)			
Parathyroid Gland			
Note: PATHOLOGIST NOTED: CUT AWAY			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 10-5.3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 539	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 21320300539
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Minimal Minimal
[Degeneration TGLS = 6-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 3-6.2]			
Kidney		Infarct	Mild
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Moderate
		Lactation	Moderate
[Fibroadenoma TGLS = 2-5]			
Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 539	TRT#: 3	SEX: Female	DAY ON TEST: 736
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300539
ORGAN AND ACCOUNTABLE SITE STATUS			
		Cyst	
[Cyst TGLS = 5-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Minimal
		Ectopic Thyroid	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 540	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300540
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5]			
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Moderate
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 542	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 737 HISTO: 21320300542
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Pancreas
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Adrenal Cortex		Angiectasis	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 3-8]			
Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Mineralization	Mild
Liver			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUTS ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen	Lymphocyte	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 542	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 737 HISTO: 21320300542
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Pigmentation	Moderate
Uterus		Atrophy	Moderate
		Hyperplasia	Cystic, Minimal
		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 543	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300543
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Marked
[Degeneration TGLS = 6-3]			
Clitoral Gland	Duct	Dilatation Inflammation	Moderate Minimal
[Dilatation TGLS = 1-6.2]			
Eye	Bilateral, Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Cyst Nephropathy	Minimal
[Cyst TGLS = 5-2]			
Liver		Eosinophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4,7,8-10]			
Lymph Node, Mandibular		Degeneration Infiltration Cellular	Cystic, Moderate Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Moderate
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 543	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300543
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 3-3]	Pars Distalis	Hyperplasia	Minimal
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 544	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300544
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 5-3]		Degeneration	Cystic, Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney Note: TGL # 04 - NO MICROSCOPIC CORRELATE		Nephropathy	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Marked
		Lactation	Moderate
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5]	Foot	Inflammation	Chronic, Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 544	TRT#: 3	SEX: Female	DAY ON TEST: 739
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300544
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	Epithel Cell	Hyperplasia	Minimal
Uterus		Cyst	Squamous, Minimal
		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 545	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300545
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 8-8]			
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Minimal
[Dilatation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 10-10]			
Lymph Node	Pancreatic	Hemorrhage	Mild
	Pancreatic	Inflammation	Granulomatous, Mild
[Hemorrhage TGLS = 3-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 545	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300545
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric Mammary Gland		Inflammation Adenocarcinoma Fibroadenoma Hyperplasia Lactation	Granulomatous, Mild Multiple Minimal Mild
Note: PATHOLOGIST NOTED: FIBROADENOMA ALSO LOCATED ON SLIDE # 5D(5.4) [Adenocarcinoma TGLS = 6-5+5.1+5.4] [Fibroadenoma TGLS = 6-5]			
Ovary		Atrophy Hyperplasia Degeneration Adenoma	Moderate Stromal, Mild Mild
Pancreas Pituitary Gland [Adenoma TGLS = 9-3]	Acinar Cell Pars Distalis		
Skin [Inflammation TGLS = 7-5.2]	Foot	Inflammation	Chronic, Mild
Spleen Thymus		Pigmentation Atrophy Cyst Metaplasia Sarcoma Stromal	Moderate Minimal Minimal Mild
Uterus Vagina [Sarcoma Stromal TGLS = 4-6.2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 546	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300546
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Galactoceles	Minimal
		Lactation	Minimal
		Atrophy	Moderate
Ovary	Acinar Cell	Degeneration	Mild
Pancreas	Pars Distalis	Adenoma	
Pituitary Gland [Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
		Pigmentation	Minimal
Spleen		Atrophy	Mild
Thymus			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 546	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300546
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	C Cell	Adenoma	
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 547	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300547
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Kidney	Pelvis	Mineralization	Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
[Infiltration Cellular TGLS = 3-10]		Infiltration Cellular	Histiocyte, Marked
Lymph Node, Mandibular			
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Moderate
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 548	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300548
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Atrophy	Mild
		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 3-5.3]			
Ovary		Cyst	
[Cyst TGLS = 1-6]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 548	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300548
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 549	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300549
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Angiectasis	Minimal
Adrenal Medulla		Hyperplasia	Focal, Mild
Bone Marrow		Hypocellularity	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 10-8]			
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 4-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
[Cyst TGLS = 11-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
	Alveolus	Degeneration	Moderate
		Lactation	Minimal
[Adenocarcinoma TGLS = 2,3,5,12-5.3+5.4+5.5+5.6]			
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 6-6]			
Parathyroid Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 549	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300549
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: TISSUE THIN			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Marked
Note: PATHOLOGIST NOTED: TGL # 7 & 8 ALSO LOCATED ON SLIDE # 6			
[Hyperplasia TGLS = 7,8-6+6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 550	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300550
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node, Mandibular	Nose	Oviduct	Pituitary Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Granulomatous, Minimal
Lymph Node, Mesenteric		Fibroadenoma	
Mammary Gland			
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Diffuse, Mild
Skin	Foot	Inflammation	Chronic, Minimal
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 551	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300551
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Liver	Lung	Nose	Oviduct
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
MISSING			
Parathyroid Gland	Thymus		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Marked
[Degeneration TGLS = 5-3]			
Brain	Brain Stem	Compression	Mild
	Cerebrum	Hemorrhage	Mild
	Cerebrum	Hydrocephalus	Minimal
[Compression TGLS = 8-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Degeneration Inflammation	Cystic, Moderate Granulomatous, Moderate
[Degeneration TGLS = 6-13]			
Mammary Gland		Fibroadenoma Lactation	Multiple Mild
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Atrophy Cyst	Moderate
Pancreas	Acinar Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 551	TRT#: 6	SEX: Female	DAY ON TEST: 739
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300551
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 02 & 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus			
Note: AREA TRIMMED			
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 06 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 552	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300552
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Mild
[Degeneration TGLS = 4-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Hyperplasia	Mild
Harderian Gland	Epithelium	Degeneration Hypertrophy	Minimal Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
Note: TGL # 03 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 552	TRT#: 1	SEX: Female	DAY ON TEST: 738
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300552
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Mild
		Sarcoma	
[Inflammation TGLS = 1-5.2]			
[Sarcoma TGLS = 3-5.4]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 553

TRT#: 7

SEX: Female

DAY ON TEST: 738

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Moderate
[Adenoma TGLS = 5-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 2-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 553	TRT#: 7	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300553
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3,4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 554	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300554
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mesenteric	Nose
Oviduct	Pancreas	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Adrenal Medulla		Hyperplasia	Focal, Moderate
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
[Cyst TGLS = 3-2]			
Liver			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node	Pancreatic	Hemorrhage	Mild
[Hemorrhage TGLS = 1-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Adenoma	
		Atypical Focus	
		Fibroadenoma	
	Alveolus	Hyperplasia	Moderate
		Inflammation	Moderate
		Lactation	Moderate
[Fibroadenoma TGLS = 4-5.2]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 554	TRT#: 7	SEX: Female	DAY ON TEST: 738
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300554
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 9-6]			
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 5-5.3]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Moderate
Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 8-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 555	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300555
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
Liver		Eosinophilic Focus	
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Mild
[Fibroadenoma TGLS = 2-5.2]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 556	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300556
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Kidney		Cyst	
[Cyst TGLS = 3-2]			
Liver		Angiectasis	Mild
		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Angiectasis TGLS = 5-5.3]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 557	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300557
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
Clitoral Gland		Inflammation	Minimal
Eye	Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Moderate
Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Mineralization	Moderate
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5+5.2]			
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.3]			
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 557	TRT#: 6	SEX: Female	DAY ON TEST: 737
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300557
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 558	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300558
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Hyperplasia	Minimal
Eye	Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGSL = 2-2]			
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Mild
[Angiectasis TGSL = 4-5.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Mild
	Duct	Hyperplasia	Moderate
		Lactation	Minimal
Ovary		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGSL = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGSL = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 558	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 21320300558
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 559	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 21320300559
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mesenteric	Nose	Oviduct	Pancreas
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 8-8]			
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
		Transitional Epithelial Carcinoma	
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4,5,6-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Mammary Gland		Adenocarcinoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 2-5.3]			
Ovary		Atrophy	Marked
		Hyperplasia	Stromal, Minimal
Parathyroid GI			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 559	TRT#: 1	SEX: Female	DAY ON TEST: 738
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300559
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 581	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 738 HISTO: 21320300581
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Minimal
Brain	Cerebrum	Meningioma Malignant	
[Meningioma Malignant TGLS = 5-8]			
Clitoral Gland		Inflammation	Marked
[Inflammation TGLS = 1-6.2]			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Moderate
		Nephropathy	Minimal
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.1]		Lactation	Mild
Nose	Nasolacrim Dct	Inflammation	Mild
	Upper Molar	Inflammation	
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 3,4-5.2+5.3]			
Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 581	TRT#: 3	SEX: Female	DAY ON TEST: 738
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300581
ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach, Forestomach [Ulcer TGLS = 6-9] Thymus	Hyperplasia		Mild
	Ulcer		Marked
	Atrophy		Mild
	Cyst		Mild
PRIMARY CAUSE OF DEATH	- Brain Cerebrum Meningioma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 582	TRT#: 3	SEX: Female	DAY ON TEST: 737
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 9-8]			
Heart		Cardiomyopathy	Minimal
Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
[Fibrosis TGLS = 8-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 2-5.3]			
[Fibroadenoma TGLS = 3-5.4]			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 6-6]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 582	TRT#: 3	SEX: Female	DAY ON TEST: 737
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300582
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 5-5]			
Thymus		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Mild
[Hyperplasia TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 606	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: 21320300606
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Lung	Lymph Node, Mandibular	Mammary Gland
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Brain	Cerebellum	Astrocytoma Malignant	
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Liver		Eosinophilic Focus	
		Necrosis	Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Minimal
	Pancreatic	Infiltration Cellular	Plasma Cell, Minimal
	Popliteal	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-13]			
[Infiltration Cellular TGLS = 4-13.2]			
[Infiltration Cellular TGLS = 3-13.1]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Ovary		Cyst	
[Cyst TGLS = 1-6]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 5-5]			
Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 606	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: 21320300606
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 607	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300607
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Inflammation	Granulomatous, Minimal
[Hyperplasia TGLS = 7-13]			
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 3,5-5.2+5.3]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Moderate
[Cyst TGLS = 9-13.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 607	TRT#: 2	SEX: Female	DAY ON TEST: 739
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300607
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1,2-5+13.1]			
Spleen		Pigmentation	Mild
Thymus			
Note: AREA TRIMMED			
Uterus		Hyperplasia	Cystic, Minimal
		Polyp Stromal	
[Polyp Stromal TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 07 - Noted grossly as Mesentery was Lymph Node, Mesenteric			
Animal Note: TGL # 02 - Noted grossly as Bone was Skin			

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 608

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Ovary	Oviduct	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Mild
[Degeneration TGLS = 2-3]			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
Lung		Hemorrhage	Moderate
[Hemorrhage TGLS = 3-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 5-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pancreas	Acinar Cell	Degeneration	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 609	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300609
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3,4-5.2+5.3+5.4]			
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 610	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300610
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Minimal
[Degeneration TGLS = 1-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 2-2]			
Liver		Basophilic Focus Inflammation	Chronic Active, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 8-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Galactoceles	Moderate
		Lactation	Minimal
[Galactoceles TGLS = 7,9-5.2+5.3]			
Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 610	TRT#: 2	SEX: Female	DAY ON TEST: 739
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300610
ORGAN AND ACCOUNTABLE SITE STATUS			
		Cyst	
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 10-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thymus		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Mild
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 611	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: 21320300611
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Marked
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Galactoceles	Minimal
		Lactation	Minimal
[Galactoceles TGLS = 3-5.2]			
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 2-5.3]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 612	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: 21320300612
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Oviduct
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
MISSING			
Parathyroid Gland	Thymus		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
		Inflammation	Minimal
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6,7,8-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,5-5.2+5.3]			
Ovary		Atrophy	Moderate
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 612	TRT#: 1	SEX: Female	DAY ON TEST: 740
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300612
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 9-5.4]			
Spleen		Pigmentation	Moderate
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 02 - No section taken (Lymph Node, Lumbar)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 613	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: 21320300613
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
MISSING			
Parathyroid Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Mild
[Degeneration TGLS = 4-3]			
Clitoral Gland		Inflammation	Mild
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 5-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 7-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus Fibroadenoma	
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 613	TRT#: 1	SEX: Female	DAY ON TEST: 740
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300613
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Pigmentation	Minimal
Uterus		Cyst	Minimal
[Hyperplasia TGLS = 3-6.1]		Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 614

TRT#: 5

SEX: Female

DAY ON TEST: 740

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node	Lymph Node, Mesenteric
Nose	Oviduct	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Marked Marked
[Degeneration TGLS = 9-3]			
Clitoral Gland	Duct	Dilatation	Marked
[Dilatation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Cyst	
	Renal Tubule	Mineralization	Moderate
		Mineralization	Moderate
		Nephropathy	Mild
[Cyst TGLS = 8-2]			
Liver			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lymph Node			
Note: TGL # 06 - NOTED GROSSLY AS LYMPH NODE, MEDIASTINAL WAS LYMPH NODE, HEMAL			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 614	TRT#: 5	SEX: Female	DAY ON TEST: 740
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300614
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 2-5]			
Ovary		Atrophy	Marked
		Cyst	
		Granulosa Cell Tumor Malignant	
[Cyst TGLS = 5-13]			
Skeletal Muscle		Granulosa Cell Tumor Malignant	Metastatic (Ovary)
[Granulosa Cell Tumor Malignant TGLS = 4-13.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 615	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: 21320300615
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mandibular
Nose	Ovary	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
		Hyperplasia	Focal, Mild
Adrenal Medulla			
Eye	Retina	Degeneration	Minimal
Harderian Gland		Hypertrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Minimal
[Angiectasis TGLS = 3-5]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]			
Pituitary Gland	Pars Distalis	Adenoma	
Skin		Cyst Epithelial Inclusion	
	Foot	Inflammation	Chronic, Marked
[Cyst Epithelial Inclusion TGLS = 4-5.3]			
[Inflammation TGLS = 1-5.4]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 616	TRT#: 6	SEX: Female	DAY ON TEST: 740
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 9-8]			
Eye	Retina	Degeneration	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 4 ON SLIDE # 2C(2.3)			
[Cyst TGLS = 4-2.3]			
Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Focal
[Vacuolization Cytoplasmic TGLS = 7-5.2]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Renal	Degeneration	Cystic, Moderate
[Degeneration TGLS = 6-13.3]			
[Degeneration TGLS = 5-13.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Minimal
		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 616	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: 21320300616
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skeletal Muscle		Lipoma	
[Lipoma TGLS = 3-13.1]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Thymus		Atrophy	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 03 - Noted grossly as Mesentery was Skeletal Muscle			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 617

TRT#: 5

SEX: Female

DAY ON TEST: 739

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Clitoral Gland	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Mammary Gland	Nose	Oviduct
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Atrophy	Minimal
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Pancreas	Acinar Cell	Degeneration	Mild
Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 618	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 21320300618
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Nose	Oviduct	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Lymph Node			
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OBSERVATIONS

Adrenal Medulla		Hyperplasia	Focal, Moderate
Clitoral Gland		Inflammation	Minimal
[Inflammation TGLS = 4-6.2]			
Intestine Large, Cecum		Inflammation	Minimal
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
[Inflammation TGLS = 9-9.2]			
Kidney	Renal Tubule	Mineralization	Moderate
Lymph Node			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE (LYMPH NODE, PANCREATIC)			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 6-9.1]			
Mammary Gland		Fibroadenoma	Multiple
Note: TGL # 01 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN			
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Atrophy	Minimal
Skin		Fibroma	
	Foot	Inflammation	Chronic, Moderate
[Fibroma TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 618	TRT#: 5	SEX: Female	DAY ON TEST: 739
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300618
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 7-5.4]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 619

TRT#: 7

SEX: Female

DAY ON TEST: 739

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Oviduct	Pancreas	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Int Lg Cecum			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: NORMAL PEYERS PATCH			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6,7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Adenocarcinoma TGLS = 2-5.3]			
Ovary		Atrophy	Moderate
		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 619	TRT#: 7	SEX: Female	DAY ON TEST: 739
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300619
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 3-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 621

TRT#: 16

SEX: Female

DAY ON TEST: 693

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Ovary	Oviduct
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

MISSING

* Clitoral Gland	* Intestine Large, Rectum	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Adenoma Degeneration Hypertrophy	Cystic, Moderate Moderate
* Clitoral GI Note: PATHOLOGIST NOTED: NOT SEEN AT NECROPSY			
* Int Lg Rectum Note: PATHOLOGIST NOTED: INVOLVED IN MAMMARY TUMOR			
* Kidney	Pelvis Renal Tubule	Mineralization Mineralization Nephropathy Basophilic Focus Vacuolization Cytoplasmic	Minimal Mild Mild
* Liver		Infiltration Cellular	Minimal
* Lymph Node, Mandibular		Inflammation	Plasma Cell, Mild
* Lymph Node, Mesenteric		Fibroadenoma	Granulomatous, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-5.1]			
* Nose	Upper Molar	Inflammation	
* Pancreas	Acinar Cell	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 621	TRT#: 16	SEX: Female	DAY ON TEST: 693
	DOSE: F3 5PPM TO CTL	DISP: Natural Death	HISTO: 21320300621
ORGAN AND ACCOUNTABLE SITE STATUS			
* Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 2-5.2]			
* Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
* Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 623	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 739 HISTO: 21320300623
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver		Angiectasis	Moderate
		Vacuolization Cytoplasmic	Mild
[Angiectasis TGLS = 2-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Nose		Keratin Cyst	
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Marked
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 623	TRT#: 5	SEX: Female	DAY ON TEST: 739
	DOSE: F1 5PPM/CTL	DISP: Natural Death	HISTO: 21320300623
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Mild
		Cyst	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 625

TRT#: 18

SEX: Female

DAY ON TEST: 697

DOSE: F3 500PPM TOCTL

DISP: Moribund

HISTO: 21320300625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Minimal
		Hypertrophy	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Hydronephrosis	Marked
		Nephropathy	Marked
[Hydronephrosis TGLS = 5-2]			
[Nephropathy TGLS = 4-2]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-5.1]			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 2-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 625	TRT#: 18	SEX: Female	DAY ON TEST: 697
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300625
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin			
Note: TGL # 03 - NOTED GOSSLY AS SKIN WAS MAMMARY GLAND			
Thymus		Cyst	Mild
		Thymoma Malignant	
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Mild
[Hyperplasia TGLS = 1-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 626	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 698 HISTO: 21320300626
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 4-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 5-8]	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Mild
Eye Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular [Infiltration Cellular TGLS = 2-12]		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric [Inflammation TGLS = 7-9.1]		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 3-5.2] [Galactoceles TGLS = 1-5.1]		Fibroadenoma Galactoceles Lactation	Mild Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 626	TRT#: 16	SEX: Female	DAY ON TEST: 698
	DOSE: F3 5PPM TO CTL	DISP: Moribund	HISTO: 21320300626
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Marked
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUTS ATTEMPTED			
Pituitary Gland	Pars Distalis	Carcinoma	
Note: PATHOLOGIST NOTED: TGL # 6 ALSO LOCATED ON SLIDE # 8			
[Carcinoma TGLS = 6-3+8]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Moderate
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 640	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300640
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Oviduct	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Marked
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Minimal
[Dilatation TGLS = 3-6.2]			
Eye	Bilateral, Retina	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Note: TGL # 04 & 05 - NO MICROSCOPIC CORRELATE			
Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 2-5]			
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 640	TRT#: 2	SEX: Female	DAY ON TEST: 744
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300640
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus	Epithel Cell	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 641	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300641
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 2-3]		Degeneration	Cystic, Moderate
Brain [Compression TGLS = 7-8]	Brain Stem	Compression	Minimal
Clitoral Gland		Inflammation	Minimal
Harderian Gland [Degeneration TGLS = 6-11.1]	Epithelium	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Inflammation	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Renal	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
	Renal	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 3-13.1]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular [Infiltration Cellular TGLS = 1-12]		Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 641	TRT#: 4	SEX: Female	DAY ON TEST: 743
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300641
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Atypical Focus	
		Lactation	Minimal
Nose	Upper Molar	Inflammation	
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-5.2]			
Spleen		Pigmentation	Mild
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 642	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300642
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Minimal
Eye	Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5]			
Ovary		Cyst	
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:58

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 642	TRT#: 2	SEX: Female	DAY ON TEST: 743
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300642
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 2-6.1]	Cervix, Muscularis	Hypertrophy	
[Hypertrophy TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:58
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 643	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300643
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Uterus	
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 4-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 7-8]	Brain Stem	Compression	Minimal
Clitoral Gland		Inflammation	Mild
Eye	Retina	Degeneration	Minimal
Harderian Gland		Hypertrophy	Minimal
Kidney [Cyst TGLS = 3-2]	Renal Tubule	Cyst Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular [Infiltration Cellular TGLS = 2-12]		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Adenocarcinoma TGLS = 6-5.2]	Alveolus	Adenocarcinoma Hyperplasia Lactation	Mild Mild
Ovary [Cyst TGLS = 5-6]		Atrophy Cyst	Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 643	TRT#: 3	SEX: Female	DAY ON TEST: 743
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300643
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Moderate
Thyroid Gland	C Cell	Adenoma	
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 644	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300644
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
MISSING			
Parathyroid Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Squamous Cell Papilloma	
Eye	Retina	Degeneration	Moderate
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenoma	
		Atypical Focus	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Atrophy	Minimal
	Granulosa Cell	Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5]			
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 644	TRT#: 6	SEX: Female	DAY ON TEST: 743
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300644
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 645	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300645
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Ovary	Oviduct	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
MISSING			
Parathyroid Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Minimal Mild
[Degeneration TGLS = 6-3]			
Clitoral Gland		Inflammation	Minimal
Eye	Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2,3,4-10+10.1+10.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 645	TRT#: 6	SEX: Female	DAY ON TEST: 743
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300645
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 646	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300646
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Minimal
Eye	Retina	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5.2]			
Ovary		Atrophy	Minimal
		Cyst	
		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 646	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300646
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 647	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300647
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Inflammation	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Marked
Note: TGL # 04 - NOTED GROSSLY AS LYMPH NODE, DEEP CERVICAL WAS MAMMARY GLAND			
[Degeneration TGLS = 6-5.4]			
Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Moderate
		Lactation	Mild
[Fibroadenoma TGLS = 1,2,4-5.3+5.2+13.1]			
Ovary		Cyst	
[Cyst TGLS = 5-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 647	TRT#: 1	SEX: Female	DAY ON TEST: 743
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300647
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 7-5.5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Adenoma	
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 06 - Noted grossly as Mesentery was Lymph Node, Lumbar			
Animal Note: Pathologist noted: Ureter is present on slide # 5D			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 648	TRT#: 7	SEX: Female	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Kidney	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Hyperplasia	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 648	TRT#: 7	SEX: Female	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300648
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1,2-5.2+13]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Minimal
		Cyst	Mild
	Epithel Cell	Hyperplasia	Moderate
Uterus		Hyperplasia	Cystic, Minimal
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 02 - Noted grossly as Bone was Skin			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 649	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300649
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Int Lg Cecum			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: NORMAL PEYERS PATCH			
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 3-5.3]			
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 4-13]			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 649	TRT#: 7	SEX: Female	DAY ON TEST: 743
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300649
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 650

TRT#: 5

SEX: Female

DAY ON TEST: 743

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Kidney	Lung	Lymph Node, Mandibular	Nose
Ovary	Oviduct	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Inflammation	Mild
Clitoral Gland			
[Inflammation TGLS = 3-6.2]			
Ear		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 4-13]			
Harderian Gland	Epithelium	Degeneration	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL # 04 - Noted grossly as Zymbal's Gland was Ear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 650	TRT#: 5	SEX: Female	DAY ON TEST: 743
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300650

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 651	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300651
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Nose	Oviduct	Pancreas	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Vagina		

MISSING

Clitoral Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Moderate
Adrenal Medulla		Hyperplasia	Focal, Minimal
Bone, Mandible		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 6-13]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 9-8]			
Clitoral Gl			
Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Note: PATHOLOGIST NOTED: INVOLVED WITH MAMMARY GLAND TUMOR			
Harderian Gland	Epithelium	Degeneration	Moderate
[Degeneration TGLS = 8-11.1]			
Liver		Cyst	
		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Minimal
		Vacuolization Cytoplasmic	Focal
[Cyst TGLS = 4,5-5+5.2]			
[Vacuolization Cytoplasmic TGLS = 3-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 651	TRT#: 5	SEX: Female	DAY ON TEST: 742
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300651
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 7-9.1]			
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.3]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
Skin	Lip	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-13.1]			
Spleen		Pigmentation	Moderate
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 652	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300652
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			
MISSING			
Adrenal Medulla			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 3-8]			
Harderian Gland	Epithelium	Degeneration	Minimal
		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Infarct	Minimal
	Pelvis	Mineralization	Minimal
[Infarct TGLS = 5-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6,7-10+10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
		Adenoma	
Pituitary Gland	Pars Distalis		
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 652	TRT#: 2	SEX: Female	DAY ON TEST: 742
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300652
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-13]			
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 01 - Noted grossly as Bone was Skin			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 653

TRT#: 5

SEX: Female

DAY ON TEST: 742

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Moderate
[Degeneration TGLS = 3-3]			
Harderian Gland	Epithelium	Degeneration Hypertrophy	Mild Minimal
Intestine Large, Cecum		Inflammation	Minimal
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Mild
		Lactation	Mild
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Cyst	
[Cyst TGLS = 4-6]			
Pancreas	Acinar Cell	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 653	TRT#: 5	SEX: Female	DAY ON TEST: 742
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300653
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 654	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 742 HISTO: 21320300654
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Infarct	Moderate
	Renal Tubule	Mineralization	Mild
[Infarct TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2-5]			
Nose	Upper Molar	Inflammation	
Ovary		Hyperplasia	Stromal, Moderate
Pituitary Gland		Cyst	
[Cyst TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 655	TRT#: 7	SEX: Female	DAY ON TEST: 743
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Ovary	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
		Inflammation	Minimal
	Renal Tubule	Mineralization	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 3-5.2]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-13.1]			
Nose	Upper Molar	Inflammation	
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 655	TRT#: 7	SEX: Female	DAY ON TEST: 743
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300655
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Mild
		Sarcoma	
[Inflammation TGLS = 2-5.3]			
[Sarcoma TGLS = 1-13]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 661	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 695 HISTO: 21320300661
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Nose	Ovary
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 1-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Mild
Kidney	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 3-12]			
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Minimal
PRIMARY CAUSE OF DEATH			
- Pituitary Gland Pars Distalis Adenoma			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 662	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300662
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Angiectasis	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2-5]			
Nose	Upper Molar	Inflammation	
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
Uterus	Cervix, Muscularis	Hypertrophy	
[Hypertrophy TGLS = 3-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 662	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300662
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 663	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300663
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Moderate
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Developmental Malformation	
		Vacuolization Cytoplasmic	Mild
[Developmental Malformation TGLS = 3-5.3]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]			
Nose	Upper Molar	Inflammation	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 664	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300664
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Minimal Minimal
[Degeneration TGLS = 1-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Kidney	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenoma	
[Adenoma TGLS = 5-5]		Lactation	Mild
Ovary		Cyst	
[Cyst TGLS = 2-6.3]		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 665	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300665
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Mild
Clitoral Gland		Inflammation	Minimal
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
[Angiectasis TGLS = 3-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Granulosa Cell Tumor Malignant	
		Sarcoma Stromal	
[Granulosa Cell Tumor Malignant TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 665	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300665
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 1-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 666	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300666
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-6.2]			
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
[Cyst TGLS = 7-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
Note: TGL # 03 & 04 - NO MICROSCOPIC CORRELATE			
[Fibroadenoma TGLS = 5-13]			
Nose	Upper Molar	Inflammation	
Ovary		Cyst	
		Hyperplasia	Stromal, Moderate
[Cyst TGLS = 6-6]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Foot	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 666	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300666
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 03 & 04 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND [Inflammation TGLS = 1-5]			
Thymus		Cyst	Mild
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 05 - Noted grossly as Mesentery was Mammary Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 667	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300667
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
	Alveolus	Degeneration	Mild
		Lactation	Minimal
[Adenocarcinoma TGLS = 2-5.2]			
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.3]			
Spleen		Pigmentation	Minimal
Uterus		Adenoma	
		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 667	TRT#: 4	SEX: Female	DAY ON TEST: 743
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300667

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-6.1]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 668	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300668
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland		Inflammation	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Thyroid Gland	C Cell	Carcinoma	
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 3-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 668	TRT#: 7	SEX: Female	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300668

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 669	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300669
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Liver	Lung	Mammary Gland
Nose	Oviduct	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Hypertrophy	Mild
Adrenal Medulla		Hyperplasia	Focal, Mild
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thyroid Gland	Follicular Cel	Adenoma	
		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Moderate
		Hyperplasia	Focal, Moderate
		Polyp Stromal	
[Polyp Stromal TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH -			
Animal Note: Pathologist noted: Lymph Node, Inguinal, infiltrat cell, plasma cell, moderate located on slide # 5A			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 670	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300670
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Moderate
[Adenoma TGLS = 7-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Minimal
[Dilatation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
		Hypertrophy	Mild
Heart		Cardiomyopathy	Minimal
Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Minimal
[Angiectasis TGLS = 8-5.3]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 3-5.2]			
Ovary		Atrophy	Mild
		Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 670	TRT#: 6	SEX: Female	DAY ON TEST: 744
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300670
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 6		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 4-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus	Epithel Cell	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 671	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300671
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Dilatation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Metaplasia	Mild
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 5-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 3-5.2]			
Ovary		Atrophy	Minimal
Pancreas		Polyarteritis	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 671	TRT#: 5	SEX: Female	DAY ON TEST: 743
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300671
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Thymus		Atrophy	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 672	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300672
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Ovary	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Hyperplasia	Minimal
Harderian Gland	Epithelium	Degeneration	Mild
Kidney [Cyst TGLS = 5-2]		Cyst	
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland [Fibroadenoma TGLS = 1,3-5+5.3]		Fibroadenoma	Multiple
		Lactation	Minimal
Pituitary Gland [Hyperplasia TGLS = 6-3]	Pars Distalis	Hyperplasia	Minimal
Skin [Inflammation TGLS = 4-5.2] [Keratoacanthoma TGLS = 2-5.4]	Foot	Inflammation	Chronic, Moderate
		Inflammation	Mild
		Keratoacanthoma	
Spleen		Pigmentation	Minimal
Thyroid Gland		Cyst	Squamous, Mild
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 689

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: F1 500PPM

DISP: Terminal Sacrifice

HISTO: 21320300689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node		Degeneration	Cystic, Minimal
		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 2-13.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 689	TRT#: 4	SEX: Female	DAY ON TEST: 744
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300689
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Cyst	Mild
Thyroid Gland		Cyst	Squamous, Mild
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 690	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300690
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mandibular			
Note: PATHOLOGIST NOTED: INFILTRAT CELL LOCATED ON SLIDE # 12 & 12A(12.1) [Infiltration Cellular TGLS = 2-12+12.1]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 691	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 743 HISTO: 21320300691
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Minimal Minimal
[Degeneration TGLS = 3-3]			
Kidney	Renal Tubule	Mineralization Nephropathy	Mild Minimal
Liver		Infiltration Cellular Vacuolization Cytoplasmic	Lymphocyte, Mild Mild
Lung		Atelectasis Infiltration Cellular	Mild Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node	Lumbar Lumbar	Degeneration Infiltration Cellular	Cystic, Moderate Plasma Cell, Moderate
[Infiltration Cellular TGLS = 5-13.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma Lactation	Minimal
[Fibroadenoma TGLS = 6-5.2]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 691	TRT#: 5	SEX: Female	DAY ON TEST: 743
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300691
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 4-13.1]			
Pancreas	Acinar Cell	Degeneration	Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 701	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300701
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lymph Node, Mandibular	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Mild Mild Marked
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland		Hyperplasia Inflammation	Mild Minimal
Harderian Gland	Epithelium	Degeneration Hypertrophy	Mild Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 8-2]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia Lactation	Minimal Mild
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Nose	Nasolacrim Dct	Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 701	TRT#: 2	SEX: Female	DAY ON TEST: 744
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300701
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 702	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300702
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Oviduct	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
MISSING			
Parathyroid Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2,3,4-5+5.2+5.3+5.4]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Cyst	
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 702	TRT#: 2	SEX: Female	DAY ON TEST: 744
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300702
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-5.5]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 703	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300703
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Mild
		Hypertrophy	Minimal
		Compression	Minimal
Brain [Compression TGLS = 8-8]	Brain Stem		
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver [Angiectasis TGLS = 5-5]		Angiectasis	Mild
Lymph Node [Infiltration Cellular TGLS = 9-13]	Lumbar	Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland [Fibroadenoma TGLS = 2,3,4-5.2+5.3+5.4]		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Minimal
Nose	Upper Molar	Inflammation	
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 703	TRT#: 3	SEX: Female	DAY ON TEST: 744
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300703
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 6-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.5]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 704	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300704
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Hypertrophy Compression	Cystic, Mild Mild Mild Mild
Brain [Compression TGLS = 1-8]	Brain Stem		
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration Cardiomyopathy Cyst	Minimal Minimal
Heart			
Kidney [Cyst TGLS = 5-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland	Alveolus	Hyperplasia Lactation Atrophy Hyperplasia Adenoma	Minimal Mild Mild Stromal, Minimal
Ovary			
Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis		
Skin [Inflammation TGLS = 3-5]	Foot	Inflammation	Chronic, Marked
Thymus		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 704	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300704
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia Metaplasia	Cystic, Mild Minimal
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 705	TRT#: 6	SEX: Female	DAY ON TEST: 745
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
[Degeneration TGLS = 4-3]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 705	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300705
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 1-5.3]	Foot	Inflammation	Chronic, Moderate
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 706	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300706
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Ovary	Oviduct
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OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Moderate
[Degeneration TGLS = 6-3]			
Clitoral Gland	Duct	Dilatation Inflammation	Marked Moderate
[Inflammation TGLS = 2-6.2]			
Kidney	Renal Tubule	Cyst Mineralization	Mild
[Cyst TGLS = 7-2]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 9-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma Lactation	Multiple Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 3 ON SLIDE # 5E(5.5)			
[Fibroadenoma TGLS = 3,4-5.4+5.5+5.2]			
Ovary			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 706	TRT#: 7	SEX: Female	DAY ON TEST: 744
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300706
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 08 - NO SECTION TAKEN			
Oviduct			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.3]			
Spleen	Red Pulp	Hyperplasia	Mild
[Hyperplasia TGLS = 5-5]			
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 707

TRT#: 7

SEX: Female

DAY ON TEST: 744

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Liver	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 8-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 707	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300707
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 1-13] Ovary		Atrophy Cyst	Mild
	Serosa	Hyperplasia	Minimal
[Cyst TGLS = 5-6.3] Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3] Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 2-5.2] Spleen		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 708	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300708
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Marked
[Hypertrophy TGLS = 3-3]			
Adrenal Medulla		Hyperplasia	Focal, Minimal
Harderian Gland	Epithelium	Degeneration	Mild
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Vacuolization Cytoplasmic Vacuolization Cytoplasmic	Minimal Focal
[Vacuolization Cytoplasmic TGLS = 5-5]			
Lymph Node	Lumbar Lumbar	Degeneration Infiltration Cellular	Cystic, Mild Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 708	TRT#: 5	SEX: Female	DAY ON TEST: 744
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300708
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 709	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300709
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Adrenal Medulla			
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Dilatation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Mild
		Nephropathy	Mild
Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Focal
[Vacuolization Cytoplasmic TGLS = 6-5]			
Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Galactoceles	Moderate
	Alveolus	Hyperplasia	Mild
		Lactation	Mild
[Galactoceles TGLS = 2-13]			
Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 709	TRT#: 5	SEX: Female	DAY ON TEST: 744
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300709
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 4-6]		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Moderate
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 710	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300710
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Cerebrum	Granular Cell Tumor Benign	
[Granular Cell Tumor Benign TGLS = 3-8]			
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Retina	Degeneration	Mild
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 2-2]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 710	TRT#: 1	SEX: Female	DAY ON TEST: 744
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300710

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Cyst	Minimal
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 719

TRT#: 16

SEX: Female

DAY ON TEST: 702

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Brain - Cerebrum	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	Oviduct	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia Hypertrophy Compression	Cystic, Mild Minimal Minimal Minimal
* Brain [Compression TGLS = 12-8]	Brain Stem		
* Eye	Bilateral, Retina	Degeneration Hypertrophy	Minimal Mild
* Harderian Gland		Cardiomyopathy	Mild
* Heart		Cyst	
* Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization Nephropathy	Minimal Minimal
[Cyst TGLS = 7-2]			
Lacrimal Gland [Metaplasia TGLS = 3-13.1]		Metaplasia	Minimal
* Liver		Angiectasis Hyperplasia	Mild Minimal
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 9 & 10 ON SLIDE # 5E(5.5) [Angiectasis TGLS = 8,9,10-5.1+5+5.5]			
Lymph Node [Hemorrhage TGLS = 6-13]	Pancreatic	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 719	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 702 HISTO: 21320300719
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Mammary Gland		Adenocarcinoma	Multiple
		Lactation	Mild
[Adenocarcinoma TGLS = 1,2-5.2+5.4]			
[Lactation TGLS = 4-5.3]			
* Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
* Pancreas	Acinar Cell	Degeneration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-3]			
* Skin			
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
		Cyst	Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 720	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300720
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
		Hypertrophy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 3-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 1-6]			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 720	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300720
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia Metaplasia	Cystic, Mild Minimal
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 721	TRT#: 2	SEX: Female	DAY ON TEST: 744
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Mild
		Lactation	Mild
Ovary		Atrophy	Minimal
Pancreas	Acinar Cell	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 722	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300722
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Adrenal Medulla		Hyperplasia	Focal, Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Ovary		Cyst	
[Cyst TGLS = 3-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 723	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 744 HISTO: 21320300723
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 6-9.1]			
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 5-13.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Note: TGL # 06 - NOTED GROSSLY AS LYMPH NODE, MESENTERIC WAS ISLETS PANCREAS			
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2,3-13+13.1]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 723	TRT#: 1	SEX: Female	DAY ON TEST: 744
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300723
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Thyroid Gland	C Cell	Adenoma	
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 744	TRT#: 2	SEX: Female	DAY ON TEST: 745
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Ovary	Oviduct	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Degeneration	Cystic, Mild
		Inflammation	Granulomatous, Moderate
[Degeneration TGLS = 4-13]			
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 744	TRT#: 2	SEX: Female	DAY ON TEST: 745
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300744

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL # 04 - Noted grossly as Mesentery was Lymph Node, Mesenteric

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 745	TRT#: 4	SEX: Female	DAY ON TEST: 745
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
[Hypertrophy TGLS = 8-3]			
Bone Marrow		Hypocellularity	Mild
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Basophilic Focus	
		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 9-5.2]		Vacuolization Cytoplasmic	Focal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 10-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
[Adenocarcinoma TGLS = 3-5.5]		Lactation	Minimal
[Fibroadenoma TGLS = 2,4-5.4+5.6]			
Nose		Keratin Cyst	
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 745	TRT#: 4	SEX: Female	DAY ON TEST: 745
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300745
ORGAN AND ACCOUNTABLE SITE STATUS			
		Cyst	
[Cyst TGLS = 5-6]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.3]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 746	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 746 HISTO: 21320300746
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Moderate Minimal
[Degeneration TGLS = 6-3]			
Clitoral Gland		Inflammation	Minimal
[Inflammation TGLS = 3-6.2]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
[Infiltration Cellular TGLS = 7-13]	Lumbar	Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,4-5.3+5.4]		Lactation	Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 746	TRT#: 1	SEX: Female	DAY ON TEST: 746
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300746
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Minimal
Uterus		Metaplasia	Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 747	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300747
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 5-3]		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Cerebrum	Astrocytoma Malignant	
Eye	Bilateral, Retina	Degeneration	Mild
Kidney [Cyst TGLS = 10-2]	Renal Tubule	Cyst Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node [Degeneration TGLS = 7-13.1] [Infiltration Cellular TGLS = 6-13]	Lumbar Lumbar	Degeneration Infiltration Cellular	Cystic, Moderate Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 2,3,4-5.2+5.3+5.4]		Fibroadenoma	Multiple
Ovary		Cyst	
Pituitary Gland [Adenoma TGLS = 9-3]	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 747	TRT#: 6	SEX: Female	DAY ON TEST: 745
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300747
ORGAN AND ACCOUNTABLE SITE STATUS			
	Lip	Inflammation	Chronic, Moderate
[Inflammation TGLS = 8-5.5]			
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Stom Gland			
Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 11 - Noted grossly as Intestine Small was Stomach Glandular			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 748

TRT#: 6

SEX: Female

DAY ON TEST: 745

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Nose	Oviduct
Pancreas	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Dilatation TGLS = 2-6.2]			
Islets, Pancreatic		Adenoma	
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Necrosis	Mild
		Vacuolization Cytoplasmic	Focal
[Necrosis TGLS = 5-5]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 6-13]			
Lymph Node, Mandibular		Cyst	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 6B(6.2)			
[Fibroadenoma TGLS = 3,4-5.3+6.2+5.4]			
Ovary		Hyperplasia	Stromal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 748	TRT#: 6	SEX: Female	DAY ON TEST: 745
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300748
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland		Hyperplasia	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 749	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300749
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Uterus	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
[Degeneration TGLS = 2-3]			
Clitoral Gland		Inflammation	Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Ovary		Cyst	
[Cyst TGLS = 4-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland		Cyst	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Thymus		Cyst	Mild
Thyroid Gland		Cyst	Squamous, Minimal
Vagina		Granular Cell Tumor Benign	
[Granular Cell Tumor Benign TGLS = 5-6.2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 750

TRT#: 7

SEX: Female

DAY ON TEST: 745

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Oviduct

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
[Degeneration TGLS = 3-3]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Galactoceles	Mild
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Galactoceles TGLS = 2-5.3]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 750	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300750
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia Metaplasia	Cystic, Minimal Minimal
[Hyperplasia TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 751	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300751
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Lymph Node, Mesenteric
Nose	Ovary	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy Inflammation	Cystic, Mild Minimal Moderate Moderate
Clitoral Gland [Inflammation TGLS = 2-6.2]			
Islets, Pancreatic [Carcinoma TGLS = 4-13]		Carcinoma	
Kidney Note: TGL # 06 - NO MICROSCOPIC CORRELATE	Renal Tubule	Mineralization	Minimal
Lymph Node Note: TGL # 04 - NOTED GROSSLY AS LYMPH NODE, PANCREATIC WAS ISLETS PANCREAS [Infiltration Cellular TGLS = 5-13.1]	Lumbar	Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland [Fibroadenoma TGLS = 3-5.2]		Fibroadenoma Lactation	Minimal
Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5]	Foot	Inflammation	Chronic, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 751	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300751
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 752	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300752
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Hyperplasia	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenoma	
		Lactation	Minimal
[Adenoma TGLS = 1-5]			
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Mild
		Sarcoma Stromal	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 753	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300753
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Minimal
[Degeneration TGLS = 4-3]			
Clitoral Gland		Inflammation	Minimal
Eye	Retina	Degeneration	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Moderate
		Nephropathy	Mild
[Cyst TGLS = 6-2]			
[Nephropathy TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Degeneration Infiltration Cellular	Cystic, Minimal Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 7-9.1]			
Mammary Gland		Fibroadenoma Lactation	Minimal
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy Hyperplasia	Moderate Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 753	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300753
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 754	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300754
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 5-8]	Brain Stem	Compression	Mild
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Note: PATHOLOGIST NOTED: TGL # 2 ALSO LOCATED ON SLIDE # 5A(5.1) [Fibroadenoma TGLS = 2-5.1+5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5]	Foot	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 754	TRT#: 5	SEX: Female	DAY ON TEST: 745
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300754
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 755	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300755
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node, Mandibular	Mammary Gland	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Minimal
Ear		Hemorrhage	Mild
[Hemorrhage TGLS = 3-13]			
Eye	Retina	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
		Schwannoma Nos	
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Mild
[Angiectasis TGLS = 2-5.2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Cyst	
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 755	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300755
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 756	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 746 HISTO: 21320300756
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Mild Minimal Moderate
[Degeneration TGLS = 4-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 8-8]			
Eye	Bilateral, Retina	Degeneration	Moderate
Kidney		Infarct	Minimal
	Renal Tubule	Mineralization	Minimal
[Infarct TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 2-5.3]			
[Lactation TGLS = 1-5.2]			
Ovary		Atrophy Cyst	Moderate
[Cyst TGLS = 5-13]			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 756	TRT#: 1	SEX: Female	DAY ON TEST: 746
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300756
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 7-3]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 757

TRT#: 2

SEX: Female

DAY ON TEST: 745

DOSE: F1 5PPM

DISP: Terminal Sacrifice

HISTO: 21320300757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Lung	Lymph Node, Mesenteric
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 5,10-3]		Degeneration	Cystic, Mild
Islets, Pancreatic Note: PATHOLOGIST NOTED: CARCINOMA LOCATED ON SLIDE # 13A(13.1)		Carcinoma	
Kidney [Cyst TGLS = 7-2]	Renal Tubule	Cyst Mineralization	Mild
Liver [Fibrous Histiocytoma TGLS = 3-5.3]		Fibrous Histiocytoma	Metastatic (Skin)
Lymph Node [Fibrous Histiocytoma TGLS = 6-13] [Fibrous Histiocytoma TGLS = 8-13.1] [Infiltration Cellular TGLS = 9-13.2]	Lumbar Pancreatic Renal Lumbar	Degeneration Fibrous Histiocytoma Fibrous Histiocytoma Infiltration Cellular	Cystic, Minimal Metastatic (Skin) Metastatic (Skin) Plasma Cell, Moderate
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland Note: TGL # 02 - NOTED GROSSLY AS MAMMARY GLAND WAS SKIN		Atypical Focus Fibroadenoma Lactation	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 757	TRT#: 2	SEX: Female	DAY ON TEST: 745
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300757
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 12-5.4]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-3]			
Skin		Fibrous Histiocytoma	
	Foot	Inflammation	Chronic, Moderate
[Fibrous Histiocytoma TGLS = 2-5.2]			
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: Pathologist noted: Lymph Node, Mediastinal, fibro histio on slide # 1			

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 758	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300758
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
MISSING			
Lymph Node			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 3-3]			
Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE (LYMPH NODE, LUMBAR)			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 6 ON SLIDE # 9C(9.3)			
Note: PATHOLOGIST NOTED: TGL # 6 ALSO LOCATED ON SLIDE # 9A(9.1) & 9B(9.2)			
[Inflammation TGLS = 6-9.1+9.2+9.3]			
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
Note: PATHOLOGIST NOTED: ADDITIONAL TISSUE LOCATED ON SLIDE # 13			
[Fibroadenoma TGLS = 1-5]			
Nose	Nasolacrim Dct	Inflammation	Minimal
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 758	TRT#: 2	SEX: Female	DAY ON TEST: 745
	DOSE: F1 5PPM	DISP: Terminal Sacrifice	HISTO: 21320300758
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Hyperplasia	Stromal, Minimal
Note: PATHOLOGIST NOTED: ADDITIONAL TISSUE LOCATED ON SLIDE # 13A(13.1)		Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 759	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300759
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Angiectasis	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Minimal
Kidney		Cyst	
		Hydronephrosis	Mild
	Epithelium, Pelvis	Hyperplasia	Mild
	Renal Tubule	Mineralization	Mild
[Hydronephrosis TGLS = 4-2]			
Liver	Bile Duct	Hyperplasia	Minimal
		Necrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 759	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300759
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 03 - Noted grossly as Lymph Node, Deep Cervical was Mammary Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 760	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300760
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Minimal
[Degeneration TGLS = 2-3]			
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Harderian Gland	Epithelium	Degeneration	Mild
Kidney		Infarct	Minimal
	Pelvis	Mineralization	Minimal
Liver		Angiectasis	Mild
		Basophilic Focus	
[Angiectasis TGLS = 8-5.2]		Developmental Malformation	
[Developmental Malformation TGLS = 7-5]			
Lymph Node, Mandibular		Degeneration Infiltration Cellular	Cystic, Mild Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 760	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300760
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
Uterus [Hyperplasia TGLS = 4-6.1]		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 761	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 745 HISTO: 21320300761
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Mild Mild Mild
[Degeneration TGLS = 4-3]			
Liver		Angiectasis	Mild
[Angiectasis TGLS = 3-5.3]	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]		Lactation	Minimal
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Degeneration	Mild
[Adenoma TGLS = 5-3]		Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 761	TRT#: 5	SEX: Female	DAY ON TEST: 745
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300761
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Moderate
	Epithel Cell	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 780

TRT#: 15

SEX: Female

DAY ON TEST: 701

DOSE: F3 0 PPM

DISP: Natural Death

HISTO: 21320300780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Brain - Cerebrum	Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	Oviduct	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	Uterus	Vagina

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Compression	Cystic, Mild Minimal Moderate
* Brain [Compression TGLS = 3-8]	Brain Stem		
* Harderian Gland		Hypertrophy	Minimal
* Kidney	Renal Tubule	Mineralization	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular [Infiltration Cellular TGLS = 1-12]		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Mammary Gland		Lactation	Mild
Ovary		Atrophy	Moderate
* Pancreas	Acinar Cell	Degeneration	Minimal
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 780	TRT#: 15	SEX: Female	DAY ON TEST: 701
	DOSE: F3 0 PPM	DISP: Natural Death	HISTO: 21320300780

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 782	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 749 HISTO: 21320300782
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Bone, Femur	Brain - Cerebellum	Brain - Cerebrum
Clitoral Gland	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Blood Vessel		Mineralization	Mild
Bone Marrow		Hypocellularity	Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 4-8]			
Heart		Cardiomyopathy	Moderate
		Mineralization	Moderate
Kidney	Renal Tubule	Mineralization	Moderate
		Nephropathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
	Alveolus	Hyperplasia	Mild
[Adenocarcinoma TGLS = 1,2-5.1+5.2]			
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Marked
Thymus		Atrophy	Marked
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 782	TRT#: 3	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Natural Death	HISTO: 21320300782

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 805	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300805
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Mild Mild Mild
[Degeneration TGLS = 5-3]			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Clitoral Gland		Inflammation	Mild
Eye	Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration Hypertrophy	Minimal Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma Lactation	Minimal
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy Cyst	Moderate
[Cyst TGLS = 3-6.3]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 805	TRT#: 4	SEX: Female	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300805
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 806	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300806
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Liver		Eosinophilic Focus	
		Vacuolization Cytoplasmic	Minimal
Lung	Alveolar Epith	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 807	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300807
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
[Cyst TGLS = 5-2]			
Liver		Basophilic Focus	
[Basophilic Focus TGLS = 6-5.3]			
Lung			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lymph Node			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE (LYMPH NODE, AXILLARY)			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-5]			
Ovary		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 4-13.1]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 807	TRT#: 6	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300807
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 808	TRT#: 7	SEX: Female	DAY ON TEST: 748
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 2-3]			
Brain	Brain Stem	Compression	Minimal
Harderian Gland		Hypertrophy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
[Cyst TGLS = 3-2]			
Liver		Angiectasis	Minimal
		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Angiectasis TGLS = 6-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 4-5.2]			
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 808	TRT#: 7	SEX: Female	DAY ON TEST: 748
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300808
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Hyperplasia	Stromal, Mild
[Adenoma TGLS = 5-3]		Adenoma	
Skin			
Note: TGL # 04 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 809	TRT#: 3	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
[Cyst TGLS = 2-2]			
Liver		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
[Angiectasis TGLS = 6-5]			
Lymph Node	Popliteal	Infiltration Cellular	Plasma Cell, Minimal
Note: TGL # 07 - NOTED GROSSLY AS LYMPH NODE, POPLITEAL WAS SKELETAL MUSCLE			
[Infiltration Cellular TGLS = 4-13.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Degeneration	Cystic, Marked
		Inflammation	Granulomatous, Mild
[Degeneration TGLS = 3-13.1]			
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skeletal Muscle		Hemangiosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 809	TRT#: 3	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300809
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hemangiosarcoma TGLS = 7-13.3]		Sarcoma	
[Sarcoma TGLS = 1-13]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 8-5.2]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 01 - Noted grossly as Mesentery was Skeletal Muscle			
Animal Note: TGL # 03 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 810	TRT#: 4	SEX: Female	DAY ON TEST: 748
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
Liver		Angiectasis	Minimal
		Cyst	
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
		Lactation	Minimal
[Adenocarcinoma TGLS = 2-12+12.1]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Saliv Glands			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 810	TRT#: 4	SEX: Female	DAY ON TEST: 748
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300810
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 02 - NOTED GROSSLY AS SALIVARY GLAND WAS MAMMARY GLAND			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 811	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300811
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland	Duct	Dilatation	Minimal
		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
		Hypertrophy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Inflammation	Chronic Active, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 811	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300811
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Moderate
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Minimal
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 812	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300812
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Adrenal Medulla		Hyperplasia	Focal, Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 813	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300813
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Moderate Minimal Marked
[Degeneration TGLS = 10-3]			
Clitoral Gland	Duct	Dilatation Inflammation	Moderate Mild
[Dilatation TGLS = 4-6.2]			
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Cyst Inflammation	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 6-2]			
Liver		Cyst	
[Cyst TGLS = 8-5.4]			
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 7-10]			
Lymph Node	Lumbar Lumbar	Degeneration Infiltration Cellular	Cystic, Mild Plasma Cell, Moderate
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 813	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300813
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland [Fibroadenoma TGLS = 2,3-5.2+5.3]		Fibroadenoma	Multiple
Ovary		Atrophy Hyperplasia Hyperplasia	Mild Stromal, Mild Mild
Pituitary Gland [Hyperplasia TGLS = 9-3]	Pars Distalis		
Skin [Inflammation TGLS = 1-5]	Foot	Inflammation	Chronic, Moderate
Thymus		Cyst	Minimal
Uterus		Hyperplasia Metaplasia	Cystic, Mild Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 814	TRT#: 6	SEX: Female	DAY ON TEST: 748
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Mild
[Degeneration TGLS = 9-3]			
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 11-8]			
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 4-6.2]			
Eye		Polyarteritis	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Moderate
		Nephropathy	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 814	TRT#: 6	SEX: Female	DAY ON TEST: 748
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300814
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	
[Hyperplasia TGLS = 6,7-6.1]			
[Polyp Stromal TGLS = 5,8-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 815	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300815
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Adrenal Medulla		Hyperplasia	Focal, Minimal
Harderian Gland	Epithelium	Degeneration	Mild
[Degeneration TGLS = 3-11.1]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 5-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 815	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300815
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 816	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300816
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 1-6.2]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
[Cyst TGLS = 3-2]			
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
	Popliteal	Infiltration Cellular	Plasma Cell, Mild
	Renal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 5-13.2]			
[Infiltration Cellular TGLS = 2-13]			
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 816	TRT#: 5	SEX: Female	DAY ON TEST: 749
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300816
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 7-5]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 817

TRT#: 7

SEX: Female

DAY ON TEST: 748

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Brain Stem	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Adrenal Medulla

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Bone Marrow		Hypocellularity	Mild
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Mild
		Hypertrophy	Minimal
Liver		Angiectasis	Minimal
		Cyst	
[Angiectasis TGLS = 3-5]			
[Cyst TGLS = 4-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 1,2-5.2+5.3]			
Ovary		Cyst	
[Cyst TGLS = 5-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 817	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300817
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 7-5.4]	Foot	Inflammation	Chronic, Moderate
Spleen		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 818	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300818
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		

MISSING

Adrenal Medulla

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Harderian Gland	Epithelium	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Liver		Eosinophilic Focus	
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
[Eosinophilic Focus TGLS = 1,2-5.2]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 4-13]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 818	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300818
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Moderate
Uterus		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 819	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300819
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Minimal
Lymph Node, Mandibular [Infiltration Cellular TGLS = 2-12]		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
Ovary		Atrophy	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Mild
Spleen		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 820	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300820
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Minimal
		Cyst	
[Cyst TGLS = 1-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.2]			
Spleen	Lymphocyte	Atrophy	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Thymus		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 821	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Moribund	DAY ON TEST: 747 HISTO: 21320300821
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Galactoceles	Moderate
		Lactation	Mild
[Galactoceles TGLS = 1,2-5.1+5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 821	TRT#: 3	SEX: Female	DAY ON TEST: 747
	DOSE: F1 100PPM	DISP: Moribund	HISTO: 21320300821
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-5.3]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 822		TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 706 HISTO: 21320300822
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur	
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye	
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon	
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	
Lung	Oviduct	Pancreas	Parathyroid Gland	
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	
Trachea	Urinary Bladder	Uterus	Vagina	
OBSERVATIONS				
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Marked Marked	
[Degeneration TGLS = 2,3-3]				
Brain	Brain Stem	Compression	Moderate	
[Compression TGLS = 6-8]				
Clitoral Gland		Inflammation	Moderate	
[Inflammation TGLS = 1-6.2]				
Islets, Pancreatic		Adenoma		
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9A(9.1)				
Kidney		Nephropathy	Moderate	
Liver		Vacuolization Cytoplasmic	Focal	
		Vacuolization Cytoplasmic	Minimal	
[Vacuolization Cytoplasmic TGLS = 4-5]				
Lymph Node, Mandibular		Degeneration Infiltration Cellular	Cystic, Mild Plasma Cell, Mild	
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal	
Mammary Gland		Galactoceles Lactation	Mild Minimal	
[Galactoceles TGLS = 8-5]				
Nose	Upper Molar	Inflammation		
Ovary		Atrophy Cyst	Mild	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 822	TRT#: 15	SEX: Female	DAY ON TEST: 706
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300822
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 08 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 5-5.1]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 826	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Natural Death	DAY ON TEST: 749 HISTO: 21320300826
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Nose	Oviduct	Pancreas	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Lens	Cataract	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 4-5.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 826	TRT#: 6	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Natural Death	HISTO: 21320300826
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen	Lymphocyte	Atrophy	Moderate
		Pigmentation	Moderate
Thymus		Atrophy	Moderate
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 827	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 708 HISTO: 21320300827
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Liver	Nose
Ovary	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Vagina

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Moderate Mild
[Degeneration TGLS = 1-3]			
Clitoral Gl			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Heart		Cardiomyopathy	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Note: PATHOLOGIST NOTED: FIBROADENOMA ALSO LOCATED ON SLIDE # 6B(6.2)			
[Fibroadenoma TGLS = 2,3-5.4+5.1]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 02 & 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 4,5-5.3+5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 827	TRT#: 15	SEX: Female	DAY ON TEST: 708
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300827
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 828

TRT#: 15

SEX: Female

DAY ON TEST: 707

DOSE: F3 0 PPM

DISP: Moribund

HISTO: 21320300828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Mild
[Degeneration TGLS = 8-11.1]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 11-2]			
[Nephropathy TGLS = 10-2]			
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
[Hepatodiaphragmatic Nodule TGLS = 5-5]			
Lung		Polyarteritis	Mild
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13.2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 9-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 828	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 707 HISTO: 21320300828
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 2,3-13+13.1]		Fibroadenoma	Multiple
Ovary		Atrophy	Moderate
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5.1]	Foot	Angiectasis Inflammation	Mild Chronic, Moderate
Spleen		Hematopoietic Cell Proliferation	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 829	TRT#: 4	SEX: Female	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Minimal
[Degeneration TGLS = 4-3]			
Eye	Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 5-2]			
Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 7-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenoma	
		Fibroadenoma	Multiple
		Lactation	Minimal
Note: PATHOLOGIST NOTED: ADENOMA LOCATED ON SLIDE # 5A(5.1)			
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 829	TRT#: 4	SEX: Female	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300829
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 830	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300830
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Ovary
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
		Inflammation	Moderate
Clitoral Gland			
[Inflammation TGLS = 2-6.2]			
Harderian Gland		Hypertrophy	Mild
Kidney	Pelvis	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 830	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300830
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 831	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300831
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lymph Node	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 9-8]			
Clitoral Gland	Duct	Dilatation	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE (LYMPH NODE, LUMBAR)			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 831	TRT#: 3	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300831
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenocarcinoma TGLS = 1,2-5.2+5.4]			
[Fibroadenoma TGLS = 3-5.3]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 02 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 8-5]			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 4-5]			
Uterus		Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 832	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300832
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Intestine Large, Rectum	Thymus		
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 5-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
		Hypertrophy	Minimal
Int Lg Rectum			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Atypical Cells	Mild
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 6-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 832	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300832
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.2]			
Spleen	Lymphocyte	Atrophy	Minimal
		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 833	TRT#: 4	SEX: Female	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Islets, Pancreatic	Lung
Lymph Node, Mesenteric	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
[Degeneration TGLS = 2,3-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Int Lg Cecum			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 13			
Intestine Small, Jejunum		Inflammation	Moderate
Note: PATHOLOGIST NOTED: TGL # 8 IS ON SLIDE # 9,NOT SLIDE # 13			
[Inflammation TGLS = 8-9]			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Adenoma	
	Alveolus	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 833	TRT#: 4	SEX: Female	DAY ON TEST: 749
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300833
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 1-5.2] Ovary		Lactation	Minimal
		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 4-6] Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Mild
Uterus			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 834	TRT#: 6	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Axillary	Degeneration	Cystic, Mild
	Axillary	Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 2-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 834	TRT#: 6	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300834
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 835

TRT#: 6

SEX: Female

DAY ON TEST: 749

DOSE: F1 100PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 7-8]			
Eye	Bilateral, Lens	Cataract	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
		Lactation	Minimal
[Adenocarcinoma TGLS = 1-5.2]			
[Fibroadenoma TGLS = 2,3,4-5.3+5.4+5]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: PATHOLOGIST NOTED: TGL # 06 LOCATED ON SLIDE 8 ALSO			
[Adenoma TGLS = 6-3,8]			
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 5-6.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 836	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300836
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 8-6.2]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 5E(5.5)			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 2,3-5.4+5.3]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 836	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300836
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin Note: TGL # 02 & 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Spleen Thymus Uterus [Hyperplasia TGLS = 5-6.1]		Pigmentation Cyst Hyperplasia	Minimal Mild Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 837

TRT#: 5

SEX: Female

DAY ON TEST: 749

DOSE: F1 5PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Ovary	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Stomach, Forestomach

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 1-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Nose	Upper Molar	Inflammation	
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Pigmentation	Minimal
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 838	TRT#: 6	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Minimal
Harderian Gland		Hypertrophy	Minimal
Kidney	Renal Tubule	Cyst	
		Mineralization	Minimal
[Cyst TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Degeneration	Cystic, Moderate
		Inflammation	Granulomatous, Mild
[Degeneration TGLS = 4-13]			
Mammary Gland	Alveolus	Atypical Focus	
		Hyperplasia	Minimal
		Lactation	Mild
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 838	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300838
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 3-6.1]		Polyp Stromal	
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 04 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 839	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300839
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node, Mandibular
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Mild Mild Mild
[Degeneration TGLS = 2-3]			
Harderian Gland	Epithelium	Degeneration Cyst	Minimal
Kidney	Epithelium, Pelvis Pelvis	Hyperplasia Mineralization	Mild Mild
[Cyst TGLS = 6-2]			
Liver	Bile Duct	Hyperplasia Inflammation Fibroadenoma Lactation	Minimal Granulomatous, Mild Mild
[Fibroadenoma TGLS = 3-5.2]			
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 4-5]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 839	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300839
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus Note: TGL # 01 - NO MICROSCOPIC CORRELATE		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 840

TRT#: 7

SEX: Female

DAY ON TEST: 749

DOSE: F1 500PPM/CTL

DISP: Terminal Sacrifice

HISTO: 21320300840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 1,2-5.2+5.3]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 840	TRT#: 7	SEX: Female	DAY ON TEST: 749
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300840
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 7-5.4]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Minimal
		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 841	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300841
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
Eye	Retina	Degeneration	Minimal
Harderian Gland	Epithelium	Degeneration	Moderate
Kidney	Renal Tubule	Mineralization	Mild
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 841	TRT#: 4	SEX: Female	DAY ON TEST: 750
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300841
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Mild
		Cyst	Mild
	Epithel Cell	Hyperplasia	Moderate
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 861	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 707 HISTO: 21320300861
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
	Cerebrum	Hydrocephalus	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Marked
[Inflammation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 1-5.1]			
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Mild
		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 862	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300862
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Liver		Developmental Malformation	
[Developmental Malformation TGLS = 7-5.3]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	
	Alveolus	Hyperplasia	Mild
		Lactation	Mild
[Fibroadenoma TGLS = 1-5]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 862	TRT#: 3	SEX: Female	DAY ON TEST: 750
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300862
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Minimal
Thymus			
Note: AREA TRIMMED			
Uterus			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 863	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300863
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Ovary		Atrophy	Minimal
		Cyst	
[Cyst TGLS = 1-13]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-5]			
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 866	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300866
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Nose
Ovary	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Angiectasis	Minimal
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Minimal
[Dilatation TGLS = 2-6.2]			
Kidney	Renal Tubule	Mineralization	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3,4-10+10.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:19:59

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 866	TRT#: 4	SEX: Female	DAY ON TEST: 750
	DOSE: F1 500PPM	DISP: Terminal Sacrifice	HISTO: 21320300866
ORGAN AND ACCOUNTABLE SITE STATUS			
Hyperplasia			Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 867

TRT#: 3

SEX: Female

DAY ON TEST: 749

DOSE: F1 100PPM

DISP: Terminal Sacrifice

HISTO: 21320300867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Minimal
		Hypertrophy	Mild
[Degeneration TGLS = 3-3]			
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Lactation	Mild
Nose		Inflammation	Minimal
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 867	TRT#: 3	SEX: Female	DAY ON TEST: 749
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300867
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Degeneration	Mild
[Adenoma TGLS = 6-3]		Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			
Thyroid Gland		Cyst	Squamous, Minimal
	C Cell	Hyperplasia	Mild
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 5-6.1]		Metaplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 868	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300868
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Minimal
Eye	Retina	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Atypical Focus	
		Lactation	Minimal
Ovary		Cyst	
		Hyperplasia	Stromal, Mild
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 13			
[Cyst TGLS = 1-13]			
Oviduct			
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 13			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 2-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 868	TRT#: 1	SEX: Female	DAY ON TEST: 748
	DOSE: F1 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300868

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen	Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 869	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300869
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Nose	Ovary
Oviduct	Pancreas	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Vagina
MISSING			
Parathyroid Gland	Thymus		
OBSERVATIONS			
Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-6.2]			
Intestine Large, Colon		Leiomyosarcoma	
[Leiomyosarcoma TGLS = 9-9]			
Kidney		Cyst	
	Renal Tubule	Mineralization	Moderate
[Cyst TGLS = 3-2]			
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 5-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Minimal
	Lumbar	Infiltration Cellular	Plasma Cell, Minimal
	Popliteal	Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 4-13.1]			
[Infiltration Cellular TGLS = 6-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
	Alveolus	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 869	TRT#: 7	SEX: Female	DAY ON TEST: 750	
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300869	
ORGAN AND ACCOUNTABLE SITE STATUS				
[Adenocarcinoma TGLS = 1-5.4]				
Pituitary Gland	Pars Distalis	Adenoma	Chronic, Mild	
Skin	Foot	Inflammation		
		Osteosarcoma		
[Inflammation TGLS = 7-5.2]				
[Osteosarcoma TGLS = 8-5.3]				
Spleen		Hematopoietic Cell Proliferation	Mild	
Thyroid Gland		Cyst	Squamous, Minimal	
Uterus		Hyperplasia	Cystic, Mild	
PRIMARY CAUSE OF DEATH	-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 870	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300870
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Glandular	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Moderate
[Inflammation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Int Lg Colon			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL # 05 & 06 - NO SECTION TAKEN			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Moderate
[Fibroadenoma TGLS = 3,4-5.3+5.4]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 870	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300870
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Stomach, Forestomach		Hyperplasia	Minimal
Thymus		Cyst	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:19:59
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 871	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300871
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea			
MISSING			
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Moderate
Liver		Angiectasis	Mild
[Angiectasis TGLS = 11-5]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Renal	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 8,10-13+13.2]			
[Infiltration Cellular TGLS = 9-13.1]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 2,3,4,5-5.3+5.4+5.5+5.6]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 871	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 749 HISTO: 21320300871
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 13C(13.3)			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Pituitary Gland [Adenoma TGLS = 12-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Thymus	Epithel Cell	Hyperplasia	Mild
Urin Bladder			
Note: PATHOLOGIST NOTED: RECUT AND WET TISSUE ATTEMPTED			
Uterus [Hyperplasia TGLS = 7-6.1]		Hyperplasia	Cystic, Minimal
Vagina			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 872	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300872
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Ovary
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Uterus		

MISSING

Urinary Bladder	Vagina		
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OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Minimal Minimal Minimal
Clitoral Gland	Duct	Dilatation Inflammation Squamous Cell Papilloma	Moderate Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE [Dilatation TGLS = 4-6.2]			
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver		Fibrosis	Minimal
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 8 ON SLIDE # 5H(5.8) [Fibrosis TGLS = 8-5.8]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 9-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 872	TRT#: 5	SEX: Female	DAY ON TEST: 750
	DOSE: F1 5PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300872
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland	Alveolus	Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3,6,7-5.3+5.6+5.5+5.4]		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 03 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 1-5.2]			
Thyroid Gland		Cyst	Squamous, Minimal
Urin Bladder			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
Vagina			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 873	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300873
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Epithelium, Pelvis	Hyperplasia	Mild
	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3,4-5.3+5.4+5.5]			
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 873	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300873
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 874	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300874
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Lymph Node, Mandibular	Nose	Oviduct	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-5]			
Ovary		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 3-6]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 875	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320300875
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Nose	Oviduct	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Minimal Minimal
[Degeneration TGLS = 2-3]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-5]			
Ovary		Cyst	
[Cyst TGLS = 3-13]			
Skin			
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Minimal
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 875	TRT#: 6	SEX: Female	DAY ON TEST: 753
	DOSE: F1 100PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300875
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 876	TRT#: 7 DOSE: F1 500PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300876
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Hyperplasia	Mild
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Islets Panc			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node	Renal	Degeneration	Cystic, Minimal
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
	Renal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Mild
		Lactation	Mild
[Fibroadenoma TGLS = 1,7-5.2+5.4]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 876	TRT#: 7	SEX: Female	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300876
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-5.3]			
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Hyperplasia	Cystic, Moderate
		Metaplasia	Mild
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 907	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300907
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Marked Minimal
[Degeneration TGLS = 2-3]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Moderate
Kidney	Renal Tubule	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia Metaplasia	Cystic, Minimal Minimal
[Hyperplasia TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 908	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300908
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Intestine Small, Jejunum		Adenoma	
[Adenoma TGLS = 2-9.1]			
Kidney		Cyst	
		Infarct	Minimal
	Renal Tubule	Mineralization	Moderate
Liver		Basophilic Focus	
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 909	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300909
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Moderate
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 4-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Marked
[Infiltration Cellular TGLS = 5-10]			
Lymph Node	Popliteal	Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 6-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 909	TRT#: 2 DOSE: F1 5PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300909
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 8-5]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Moderate
		Metaplasia	Mild
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 910

TRT#: 1

SEX: Female

DAY ON TEST: 752

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320300910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mesenteric	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 2-5.3]			
Mesentery		Lipoma	
[Lipoma TGLS = 4-13]			
Ovary		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Uterus	Cervix, Muscularis	Hypertrophy	
[Hypertrophy TGLS = 5-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 910	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300910
ORGAN AND ACCOUNTABLE SITE STATUS			
Vagina [Sarcoma Stromal TGLS = 6-6.2]		Sarcoma Stromal	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 911	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300911
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebrum	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
MISSING			
Brain - Cerebellum			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 9-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 8-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
		Lactation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 911	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300911
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenocarcinoma TGLS = 4-5.2]			
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Ovary		Atrophy Cyst	Mild
[Cyst TGLS = 6-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
Skin	Foot	Inflammation	Chronic, Moderate
Note: TGL # 04 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia Polyp Stromal	Cystic, Mild
[Hyperplasia TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 912	TRT#: 4 DOSE: F1 500PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300912
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Ovary
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 1,2-2]			
Liver		Angiectasis	Minimal
[Angiectasis TGLS = 3-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Cyst	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 913	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300913
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Mild
Kidney	Pelvis	Mineralization	Minimal
Liver		Eosinophilic Focus	
	Biliar Tract	Fibrosis	Mild
[Eosinophilic Focus TGLS = 7-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5.2+5.3]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Moderate
[Cyst TGLS = 4-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 913	TRT#: 3	SEX: Female	DAY ON TEST: 750
	DOSE: F1 100PPM	DISP: Terminal Sacrifice	HISTO: 21320300913
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 5-5]			
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 914	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 747 HISTO: 21320300914
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node	Lymph Node, Mandibular
Mammary Gland	Nose	Oviduct	Pancreas
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Atrophy	Marked
		Hypertrophy	Minimal
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Dilatation TGLS = 1-6.2]			
Heart			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Angiectasis	Minimal
[Angiectasis TGLS = 3-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE (LYMPH NODE, PANCREATIC)			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 914	TRT#: 3 DOSE: F1 100PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 747 HISTO: 21320300914
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 915	TRT#: 5 DOSE: F1 5PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320300915
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Infarct	Minimal
	Pelvis	Mineralization	Mild
[Infarct TGLS = 1-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 916	TRT#: 7	SEX: Female	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Esophagus	Eye	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
[Degeneration TGLS = 2-3]			
Brain	Brain Stem	Compression	Mild
	Cerebrum	Hydrocephalus	Minimal
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Mild
Harderian Gland		Hypertrophy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 916	TRT#: 7	SEX: Female	DAY ON TEST: 750
	DOSE: F1 500PPM/CTL	DISP: Terminal Sacrifice	HISTO: 21320300916
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
		Leiomyosarcoma	
[Leiomyosarcoma TGLS = 4-6.3+6.4+6.5+6.6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 917	TRT#: 1 DOSE: F1 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 748 HISTO: 21320300917
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node, Mandibular	Nose	Oviduct	Pancreas
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Uterus	Vagina
MISSING			
Parathyroid Gland	Thymus		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Lactation	Mild
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Spleen		Pigmentation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 918	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300918
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
MISSING			
Parathyroid Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
Adrenal Medulla		Hyperplasia	Diffuse, Moderate
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 4-8]			
Harderian Gland	Epithelium	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2-5.2+5.3]			
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 918	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300918
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 919	TRT#: 6 DOSE: F1 100PPM/CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 747 HISTO: 21320300919
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Ovary	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Glandular	Trachea
Urinary Bladder	Uterus	Vagina	
MISSING			
Stomach, Forestomach			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Stom Forestom			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Thymus		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 927	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 706 HISTO: 21320300927
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Minimal
[Degeneration TGLS = 6-3]			
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 9-8]			
Clitoral Gland		Inflammation	Moderate
[Inflammation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Cyst	
	Renal Tubule	Mineralization	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 7-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node			
Note: TGL # 11 - NOTED GROSSLY AS LYMPH NODE, MEDIASTINAL WAS LYMPH NODE, HEMAL			
Note: TGL # 11 - NO MICROSCOPIC CORRELATE (LYMPH NODE, HEMAL)			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 927	TRT#: 18	SEX: Female	DAY ON TEST: 706
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300927
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,3-5.1+5.3]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 10-5.2]			
Uterus		Metaplasia	Moderate
		Polyp Stromal	
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Note: PATHOLOGIST NOTED: METAPLASIA LOCATED ONLY IN THE POLYP			
[Polyp Stromal TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 928

TRT#: 16

SEX: Female

DAY ON TEST: 711

DOSE: F3 5PPM TO CTL

DISP: Moribund

HISTO: 21320300928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Clitoral Gland		Hyperplasia	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver	Biliar Tract	Fibrosis	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 2-5.2]			
Nose	Upper Molar	Inflammation	
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.1]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Mild
Thyroid Gland		Cyst	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 928	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 711 HISTO: 21320300928
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 931	TRT#: 17	SEX: Female	DAY ON TEST: 712
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Minimal Mild Minimal
[Degeneration TGLS = 3-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver	Biliar Tract	Fibrosis	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.1]			
Nose		Inflammation	Moderate
		Keratin Cyst	
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 931	TRT#: 17	SEX: Female	DAY ON TEST: 712
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300931
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Mild
Stomach, Forestomach		Ulcer	Moderate
Thymus		Atrophy	Mild
		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 932

TRT#: 16

SEX: Female

DAY ON TEST: 713

DOSE: F3 5PPM TO CTL

DISP: Moribund

HISTO: 21320300932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 5-8]			
Eye	Retina	Degeneration	Moderate
Kidney	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6,7-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Adenocarcinoma TGLS = 1-5.1]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 932	TRT#: 16	SEX: Female	DAY ON TEST: 713
	DOSE: F3 5PPM TO CTL	DISP: Moribund	HISTO: 21320300932
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 935	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 720 HISTO: 21320300935
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Bone Marrow		Hypocellularity	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Ovary		Cyst	
[Cyst TGLS = 2-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.1]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Minimal
Thyroid Gland		Cyst	Squamous, Mild
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 935	TRT#: 17	SEX: Female	DAY ON TEST: 720
	DOSE: F3 100PPM TO CTL	DISP: Moribund	HISTO: 21320300935
ORGAN AND ACCOUNTABLE SITE STATUS			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 936

TRT#: 15

SEX: Female

DAY ON TEST: 725

DOSE: F3 0 PPM

DISP: Natural Death

HISTO: 21320300936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	Bone, Femur	* Brain - Cerebrum
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	Oviduct
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Brain	Brain Stem	Compression	Minimal
	Cerebellum	Granular Cell Tumor Benign	
[Compression TGLS = 7-8]			
Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 10,11-6.2]			
* Eye	Bilateral, Lens	Cataract	Mild
* Harderian Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Moderate
		Nephropathy	Moderate
[Nephropathy TGLS = 12-2]			
* Liver		Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Marked
Note: PATHOLOGIST NOTED: TGL # 8 ALSO LOCATED ON SLIDE # 10A(10.1)			
Note: PATHOLOGIST NOTED: BLOCK 10A(10.1) ADDED DUE TO OVERCROWDING			
[Infiltration Cellular TGLS = 8-10+10.1]			
Lymph Node	Popliteal	Degeneration	Cystic, Mild
	Mediastinal	Infiltration Cellular	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 936	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 725 HISTO: 21320300936
ORGAN AND ACCOUNTABLE SITE STATUS			
	Popliteal	Infiltration Cellular	Plasma Cell, Marked
[Infiltration Cellular TGLS = 3-1]			
[Infiltration Cellular TGLS = 4-13.1]			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
* Mammary Gland	Alveolus	Degeneration	Moderate
		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 1-5.1]			
* Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Saliv Glands			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
* Skin	Foot	Inflammation	Chronic, Marked
Note: TGL # 01 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
[Inflammation TGLS = 5-5.2]			
* Spleen	Lymphocyte	Atrophy	Mild
		Hematopoietic Cell Proliferation	Mild
* Thymus			
Note: TGL # 03 - NOTED GROSSLY AS THYMUS WAS LYMPH NODE, MEDIASTINAL			
Uterus		Adenocarcinoma	
[Adenocarcinoma TGLS = 9-6.1]			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma			
Animal Note: TGL # 02 - Noted grossly as Tongue, mass was Salivary Gland			
Animal Note: TGL # 04 - Noted grossly as Skeletal Muscle was Lymph Node, Popliteal			
Animal Note: Pathologist noted : Tongue, inflammation on slide # 13			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 937

TRT#: 17

SEX: Female

DAY ON TEST: 728

DOSE: F3 100PPM TO CTL

DISP: Natural Death

HISTO: 21320300937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Nose	Oviduct	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	Uterus	Vagina

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Mild
* Heart			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
* Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 7-2]			
* Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 6-13]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Mammary Gland		Adenoma	
	Alveolus	Fibroadenoma	
		Hyperplasia	Minimal
		Lactation	Minimal
[Adenoma TGLS = 3-5.3]			
[Fibroadenoma TGLS = 4-5.4]			
Ovary		Cyst	
		Hyperplasia	Stromal, Minimal
* Pancreas	Acinar Cell	Degeneration	Mild
* Skin		Cyst Epithelial Inclusion	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 937	TRT#: 17	SEX: Female	DAY ON TEST: 728
	DOSE: F3 100PPM TO CTL	DISP: Natural Death	HISTO: 21320300937
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1,2-5.1+5.2] * Spleen * Thymus	Foot	Inflammation	Chronic, Moderate
	Lymphocyte	Atrophy	Moderate
		Pigmentation	Moderate
		Atrophy	Moderate
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 939

TRT#: 18

SEX: Female

DAY ON TEST: 732

DOSE: F3 500PPM TOCTL

DISP: Natural Death

HISTO: 21320300939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Brain Stem	* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	Oviduct	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	Vagina	

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Moderate
* Clitoral Gland		Inflammation	Minimal
* Eye	Bilateral, Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
* Liver		Congestion	Moderate
[Congestion TGLS = 5-5]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 12-10]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Mild
	Mediastinal	Infiltration Cellular	Plasma Cell, Mild
	Popliteal	Infiltration Cellular	Plasma Cell, Moderate
	Lumbar	Yolk Sac Carcinoma	Metastatic (Ovary)
	Renal	Yolk Sac Carcinoma	Metastatic (Ovary)
[Hemorrhage TGLS = 3-13.1]			
[Infiltration Cellular TGLS = 7-13.3]			
[Infiltration Cellular TGLS = 8-13.4]			
[Yolk Sac Carcinoma TGLS = 4-13.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 939	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Natural Death	DAY ON TEST: 732 HISTO: 21320300939
ORGAN AND ACCOUNTABLE SITE STATUS			
[Yolk Sac Carcinoma TGLS = 2-13]			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 13-12]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
* Ovary		Yolk Sac Carcinoma	
Note: PATHOLOGIST NOTED: TINY FRAGMENT OF TUMOR			
[Yolk Sac Carcinoma TGLS = 1-6.3]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 9-3]			
* Skin	Foot	Inflammation Keratoacanthoma	Chronic, Moderate
[Inflammation TGLS = 10-5.1]			
[Keratoacanthoma TGLS = 11-5.2]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Cyst	Squamous, Mild
* Urin Bladder			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
* Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH		- Ovary Yolk Sac Carcinoma	
Animal Note: TGL # 06 - No section taken (Cavity)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 940

TRT#: 16

SEX: Female

DAY ON TEST: 734

DOSE: F3 5PPM TO CTL

DISP: Natural Death

HISTO: 21320300940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	Bone, Femur
* Brain - Cerebellum	* Brain - Cerebrum	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	Oviduct
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Moderate
* Brain	Brain Stem	Compression	Mild
[Compression TGLS = 1-8]			
* Clitoral Gland	Duct	Dilatation	Mild
* Eye	Bilateral, Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
* Mammary Gland	Alveolus	Degeneration	Mild
		Lactation	Minimal
* Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3,4-5.2+5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 940	TRT#: 16	SEX: Female	DAY ON TEST: 734
	DOSE: F3 5PPM TO CTL	DISP: Natural Death	HISTO: 21320300940
ORGAN AND ACCOUNTABLE SITE STATUS			
* Spleen		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 941	TRT#: 18	SEX: Female	DAY ON TEST: 736
	DOSE: F3 500PPM TOCTL	DISP: Moribund	HISTO: 21320300941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node, Mesenteric	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 7-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
		Hyperplasia	Minimal
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Liver		Inflammation	Chronic Active, Mild
		Necrosis	Mild
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 2-13]			
Nose		Squamous Cell Carcinoma	
Note: PATHOLOGIST NOTED: SQUAM CEL CARC ALSO LOCATED ON SLIDE # 11			
[Squamous Cell Carcinoma TGLS = 6-11+13.2]			
Oral Mucosa		Sarcoma	
[Sarcoma TGLS = 5-13.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 941		TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Moribund	DAY ON TEST: 736 HISTO: 21320300941
ORGAN AND ACCOUNTABLE SITE STATUS				
Ovary			Atrophy Cyst	Moderate
[Cyst TGLS = 3-6]				
Pituitary Gland	Pars Distalis		Adenoma	
[Adenoma TGLS = 8-3]				
Skin	Foot		Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.1]				
Spleen			Hematopoietic Cell Proliferation	Moderate
			Pigmentation	Minimal
Vagina			Inflammation	Mild
PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma				
Animal Note: TGL # 05 - Noted grossly as Oral Cavity was Oral Mucosa				
Animal Note: TGL # 06 - Noted grossly as Oral Cavity was Nose				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 942	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 734 HISTO: 21320300942
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	
OBSERVATIONS			
Adrenal Cortex		Angiectasis	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 4-8]			
Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-6.2]			
Eye			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
[Vacuolization Cytoplasmic TGLS = 3-5]		Vacuolization Cytoplasmic	Focal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Spleen		Pigmentation	Moderate
Stomach, Forestomach		Inflammation	Minimal
Thymus		Atrophy	Mild
		Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 942	TRT#: 15	SEX: Female	DAY ON TEST: 734
	DOSE: F3 0 PPM	DISP: Moribund	HISTO: 21320300942
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus		Hyperplasia	Cystic, Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Vagina		Inflammation	Moderate
[Inflammation TGLS = 2-6.2]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 943	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 738 HISTO: 21320300943
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Oviduct
Pancreas	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 4-8]	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Minimal
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lung		Inflammation	Mild
Lymph Node, Mandibular [Infiltration Cellular TGLS = 2-12]		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Nose		Inflammation	Minimal
Ovary		Atrophy	Marked
		Hyperplasia	Stromal, Mild
Parathyroid Gland Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 943	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 738 HISTO: 21320300943
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 944	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 734 HISTO: 21320300944
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large, Cecum	Vagina
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OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Moderate
[Degeneration TGLS = 4-3]			
Adrenal Medulla		Pheochromocytoma Benign	
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 5-8]			
Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Int Lg Cecum			
Note: PATHOLOGIST NOTED: MICROBIOLOGY TOOK CECUM BEFORE NECROPSY			
Kidney	Pelvis	Mineralization Nephropathy	Moderate Minimal
Liver			
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Adenocarcinoma Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 944	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 734 HISTO: 21320300944
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenocarcinoma TGLS = 1-5.2] [Fibroadenoma TGLS = 2-5.3]		Lactation	Minimal
Ovary		Atrophy Hyperplasia Adenoma	Moderate Stromal, Minimal
Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis		
Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Moderate
Thymus		Atrophy Cyst	Minimal Mild
Uterus [Polyp Stromal TGLS = 7-6.2]		Hyperplasia Polyp Stromal	Cystic, Minimal
Vagina			
Note: TGL # 07 - NOTED GROSSLY AS VAGINA WAS UTERUS			
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED, NOT SUCCESSFUL			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 945	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 736 HISTO: 21320300945
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Stomach, Forestomach

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Minimal Mild
[Degeneration TGLS = 3-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Liver	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 1,2-5.2+5.1]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 945	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 736 HISTO: 21320300945
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Stom Forestom			
Note: PATHOLOGIST NOTED: RECUTS ATTEMPTED			
Thymus		Atrophy	Moderate
Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Moderate
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 949	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 744 HISTO: 21320300949
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 1-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Moderate
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Vacuolization Cytoplasmic	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 3-5.1]			
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Spleen		Pigmentation	Mild
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 950	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300950
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mesenteric	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Mild
[Dilatation TGLS = 2-6.2]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 3-2]			
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-13]			
[Hyperplasia TGLS = 5-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Mammary Gland	Alveolus	Hyperplasia	Mild
		Lactation	Minimal
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 950	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300950
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 951

TRT#: 15

SEX: Female

DAY ON TEST: 751

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320300951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Nose	Ovary	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 951	TRT#: 15	SEX: Female	DAY ON TEST: 751
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320300951
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Minimal
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 952	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 750 HISTO: 21320300952
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mandibular	Nose	Oviduct
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
Note: PATHOLOGIST NOTED: FIBROADENOMA ALSO LOCATED ON SLIDE # 5A(5.1)			
[Fibroadenoma TGLS = 1-5.2]			
Ovary		Cyst	
[Cyst TGLS = 2-13+13.1]			
Pancreas	Acinar Cell	Degeneration	Minimal
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 3-5.3]			
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 953

TRT#: 16

SEX: Female

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Mammary Gland	Nose	Oviduct
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 3-2]			
Liver	Biliar Tract	Fibrosis	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 2-13]			
Pancreas	Acinar Cell	Degeneration	Marked
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 953	TRT#: 16	SEX: Female	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300953
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Moderate
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 954

TRT#: 16

SEX: Female

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Lung	Mammary Gland	Nose
Ovary	Oviduct	Pancreas	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-6.2]			
Eye	Retina	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5]			
Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 955	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300955
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
MISSING			
Parathyroid Gland	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Heart		Cardiomyopathy	Minimal
Int Lg Cecum			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 2-2]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Renal	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
	Renal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 955	TRT#: 16	SEX: Female	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300955
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Lactation	Mild
		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			
Uterus		Hyperplasia	Cystic, Mild
Vagina			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 956

TRT#: 16

SEX: Female

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Oviduct	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Adrenal Medulla		Pheochromocytoma Benign	
Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 4-6.2]			
Eye	Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Liver		Cholangiocarcinoma	
[Cholangiocarcinoma TGLS = 7-5.4]			
Lung		Inflammation	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Adenocarcinoma	
		Atypical Focus	
		Fibroadenoma	
	Alveolus	Hyperplasia	Marked
		Lactation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 956

TRT#: 16

SEX: Female

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300956

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenocarcinoma TGLS = 3-5.3]

[Fibroadenoma TGLS = 2-5.2]

Nose Squamous Cell Carcinoma

Note: PATHOLOGIST NOTED: TGL # 8 ALSO LOCATED ON SLIDE # 11

[Squamous Cell Carcinoma TGLS = 8-11+13]

Ovary Atrophy

Hyperplasia

Mild

Degeneration

Stromal, Minimal

Pancreas Acinar Cell

Mild

Parathyroid Gland

Note: PATHOLOGIST NOTED: AREA TRIMMED

Pituitary Gland Pars Distalis

Adenoma

[Adenoma TGLS = 6-3]

Skin Inflammation

Chronic, Moderate

[Inflammation TGLS = 1-5]

Stomach, Forestomach Hyperplasia

Minimal

Thymus

Note: PATHOLOGIST NOTED: AREA TRIMMED

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL # 08 - Noted grossly as Tissue NOS was Nose

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 957	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300957
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Liver	Lung
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
MISSING			
Oviduct			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Moderate
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 6-8]			
Harderian Gland	Epithelium	Degeneration	Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.2]			
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 3-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 957	TRT#: 16	SEX: Female	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300957
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus	Epithel Cell	Cyst	Minimal
		Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Minimal
		Metaplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 958

TRT#: 16

SEX: Female

DAY ON TEST: 751

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lung
Nose	Ovary	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Renal Tubule	Mineralization	Mild
Liver	Biliar Tract	Fibrosis	Mild
		Vacuolization Cytoplasmic	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5+5.2]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 959	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300959
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 12-3]		Degeneration	Cystic, Mild
Brain [Compression TGLS = 10-8]	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Mild
Kidney [Cyst TGLS = 8-2]	Pelvis	Cyst Mineralization	Mild
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node [Degeneration TGLS = 7-13]	Lumbar Lumbar	Degeneration Infiltration Cellular	Cystic, Marked Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland [Adenocarcinoma TGLS = 2,4-5.2+5.4] [Fibroadenoma TGLS = 1,3,5-5+5.3+5.5]		Adenocarcinoma Fibroadenoma Lactation	Multiple Multiple Mild
Ovary		Atrophy Hyperplasia	Moderate Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 959	TRT#: 16	SEX: Female	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300959
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 11-5.6]			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 13-5.7]			
Thyroid Gland		Cyst	Squamous, Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 960	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300960
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Mild Mild Mild
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Liver	Bile Duct	Basophilic Focus Hyperplasia Vacuolization Cytoplasmic	Mild Mild
Lymph Node [Infiltration Cellular TGLS = 4-13]	Lumbar	Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hemorrhage	Minimal
		Inflammation	Granulomatous, Moderate
Mammary Gland	Alveolus	Fibroadenoma Hyperplasia Lactation	Multiple Minimal Mild
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 960	TRT#: 16	SEX: Female	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300960
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 961	TRT#: 16	SEX: Female	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Compression	Minimal
Brain	Brain Stem		
[Compression TGLS = 4-8]			
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
[Cyst TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Lactation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 961	TRT#: 16	SEX: Female	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300961
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 962	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300962
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Liver		Vacuolization Cytoplasmic	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6,7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Minimal
Note: PATHOLOGIST NOTED: FIBROADENOMA ALSO LOCATED ON SLIDE # 5A(5.1)			
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 962	TRT#: 16	SEX: Female	DAY ON TEST: 751
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300962
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen	Epithel Cell	Hematopoietic Cell Proliferation	Minimal
Thymus		Cyst	Mild
		Hyperplasia	Moderate
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 963

TRT#: 17

SEX: Female

DAY ON TEST: 751

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320300963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Brain	Brain Stem	Compression	Moderate
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 8 ON SLIDE # 8A(8.1) [Compression TGLS = 8-8.1]			
Harderian Gland		Hypertrophy	Minimal
Int Lg Rectum			
Note: TGL # 09 - NOTED GROSSLY AS INT LG RECTUM WAS MAMMARY GLAND			
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE [Hepatodiaphragmatic Nodule TGLS = 4-5.3]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 963	TRT#: 17	SEX: Female	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300963
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Galactoceles	Moderate
	Alveolus	Hyperplasia	Moderate
		Lactation	Moderate
[Fibroadenoma TGLS = 2,3-5+5.2]			
[Galactoceles TGLS = 9-9.1]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 964	TRT#: 17	SEX: Female	DAY ON TEST: 750
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Nose	Ovary	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Liver		Vacuolization Cytoplasmic	Minimal
[Vacuolization Cytoplasmic TGLS = 4-5.4]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 2-5.2+5.3]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland		Cyst	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 964	TRT#: 17	SEX: Female	DAY ON TEST: 750
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320300964
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 965	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300965
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy	Cystic, Mild Mild Minimal
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Liver		Hematopoietic Cell Proliferation	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia Lactation	Minimal Minimal
[Fibroadenoma TGLS = 1-5.2]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 3-5.3]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 965	TRT#: 18	SEX: Female	DAY ON TEST: 751
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320300965
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 966	TRT#: 18	SEX: Female	DAY ON TEST: 751
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320300966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

MISSING

Clitoral Gland			
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Clitoral Gl			
Note: TGL # 02 - NOTED GROSSLY AS CLITORAL GLAND WAS MAMMARY GLAND			
Note: PATHOLOGIST NOTED: OBSCURED BY MASS			
Liver		Inflammation	Chronic Active, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 2,5-6.2+5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 966	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300966
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 967	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300967
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Bone Marrow		Hypocellularity	Mild
Clitoral Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Minimal
[Degeneration TGLS = 1-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Degeneration	Minimal
		Fibroadenoma	
Ovary		Atrophy	Moderate
Pituitary Gland		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-3]			
Spleen	Red Pulp	Atrophy	Mild
		Pigmentation	Mild
[Atrophy TGLS = 3-5]			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 967	TRT#: 18	SEX: Female	DAY ON TEST: 751
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320300967
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 968

TRT#: 18

SEX: Female

DAY ON TEST: 751

DOSE: F3 500PPM TOCTL

DISP: Terminal Sacrifice

HISTO: 21320300968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Kidney
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Moderate
[Dilatation TGLS = 3-6.2]			
Eye	Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Degeneration	Cystic, Mild
		Infiltration Cellular	Plasma Cell, Mild
		Inflammation	Granulomatous, Mild
[Infiltration Cellular TGLS = 4-13]			
Mammary Gland		Lactation	Mild
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 968	TRT#: 18	SEX: Female	DAY ON TEST: 751
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320300968
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 04 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 969	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300969
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Ovary	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 6-8]			
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
		Infarct	Minimal
Liver		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 969	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320300969
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Mild
		Cyst	Mild
Uterus		Adenomyosis	Minimal
		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1014	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301014
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Ovary	Oviduct	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Mild
Clitoral Gland		Inflammation	Mild
Eye	Bilateral, Retina	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 1-2]			
Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Nose	Upper Molar	Inflammation	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1014	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301014
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 6-5.4]			
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1015	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301015
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 2-2]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13]			
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1016	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301016
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Moderate Minimal
[Degeneration TGLS = 2-3]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Mesentery		Polyarteritis	Mild
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1017	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301017
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Lung	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
MISSING			
Clitoral Gland			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Clitoral Gl			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 2-5.2]			
Kidney		Cyst	
[Cyst TGLS = 3-2]			
Liver		Nephropathy	Minimal
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Nose	Upper Molar	Inflammation	
Ovary		Cyst	
Pancreas	Acinar Cell	Degeneration	Mild
Note: TGL # 02 - NOTED GROSSLY AS PANCREAS WAS ISLETS PANCREATIC			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1017	TRT#: 16	SEX: Female	DAY ON TEST: 752
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301017
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1018	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301018
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mesenteric
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Mild
Eye	Bilateral, Retina	Degeneration	Moderate
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 2,3,5-5.2+5.3+5.4]			
Oral Mucosa		Keratin Cyst	
[Keratin Cyst TGLS = 6-13]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1018	TRT#: 17	SEX: Female	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301018

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH -

Animal Note: TGL # 06 - Noted grossly as Bone, Mandible was Oral Mucosa

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1019	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301019
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 4-3]			
[Hyperplasia TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1019	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301019
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
Uterus		Adenomyosis	Mild
		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1020	TRT#: 17	SEX: Female	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Minimal
Islets Panc			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver	Biliar Tract	Fibrosis	Mild
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 7-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 3-5.3]			
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Mild
Pancreas			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1020	TRT#: 17	SEX: Female	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301020
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1021	TRT#: 17	SEX: Female	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Eye	Retina	Degeneration	Moderate
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5.2+5.3]			
Ovary		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-5]			
Thymus		Cyst	Mild
Uterus		Adenocarcinoma	
		Hyperplasia	Cystic, Moderate
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1021	TRT#: 17	SEX: Female	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301021

ORGAN AND ACCOUNTABLE SITE STATUS

Sarcoma Stromal

Note: PATHOLOGIST NOTED: TGL # 6 ALSO LOCATED ON SLIDE # 6D(6.4)
[Adenocarcinoma TGLS = 6-6.3+6.4]
[Hyperplasia TGLS = 5-6.1]
[Polyp Stromal TGLS = 7-6.4]

PRIMARY CAUSE OF DEATH	-
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Animal Note: Pathologist noted : Mesentery, Polyarleritis, minimal located on slide # 5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1022	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301022
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Clitoral Gland		Inflammation	Mild
Heart		Schwannoma Nos	
Islets, Pancreatic		Adenoma	
Kidney	Pelvis	Mineralization	Moderate
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 1-6,13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1023

TRT#: 17

SEX: Female

DAY ON TEST: 751

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Oviduct	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
		Hypertrophy	Moderate
		Compression	Moderate
Brain	Brain Stem		
[Compression TGLS = 10-8]			
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Minimal
[Dilatation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Moderate
[Fibroadenoma TGLS = 3,4-5.2+5.3]			
Nose		Inflammation	Mild
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1023	TRT#: 17	SEX: Female	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301023
ORGAN AND ACCOUNTABLE SITE STATUS			
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 6-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.4]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
Uterus		Hemorrhage	Mild
		Hyperplasia	Cystic, Moderate
[Hemorrhage TGLS = 8-6.1]			
[Hyperplasia TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1024	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301024
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 4-6.2]			
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Mineralization	Mild
		Nephropathy	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-5.4]		Lactation	Mild
[Lactation TGLS = 2-5.3]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]		Cyst	
[Cyst TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 5-6.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1024	TRT#: 17	SEX: Female	DAY ON TEST: 751
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301024

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1025	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301025
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Mild
		Hypertrophy	Moderate
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Lactation	Minimal
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1026	TRT#: 18	SEX: Female	DAY ON TEST: 752
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy Vacuolization Cytoplasmic	Cystic, Moderate Mild Moderate
[Degeneration TGLS = 3-3]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1026	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301026
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 5-5.3]	Foot	Inflammation	Chronic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1027	TRT#: 18	SEX: Female	DAY ON TEST: 751
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Minimal
[Degeneration TGLS = 5-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 8-8]			
Clitoral Gland	Duct	Dilatation Inflammation	Mild Mild
[Dilatation TGLS = 2-6.2]			
Eye	Retina	Degeneration	Minimal
Harderian Gland	Epithelium	Degeneration	Mild
Kidney		Inflammation	Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Liver		Basophilic Focus Hyperplasia	Mild
	Bile Duct	Infiltration Cellular Inflammation	Plasma Cell, Mild Granulomatous, Mild
Lymph Node, Mandibular		Adenocarcinoma Atypical Focus	
Lymph Node, Mesenteric		Fibroadenoma	
Mammary Gland		Hyperplasia	Minimal
	Alveolus	Lactation	Mild
[Adenocarcinoma TGLS = 3-5.3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1027	TRT#: 18	SEX: Female	DAY ON TEST: 751
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301027
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 4-5.4]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1028	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 751 HISTO: 21320301028
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1029	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Natural Death	DAY ON TEST: 749 HISTO: 21320301029
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	Bone, Femur	* Brain - Cerebellum
* Brain - Cerebrum	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Nose	Oviduct	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
* Bone Marrow		Hypocellularity	Mild
* Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Mild
* Harderian Gland		Hypertrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
* Liver		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3,4-5]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
* Mammary Gland		Lactation	Minimal
* Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1029	TRT#: 18	SEX: Female	DAY ON TEST: 749
	DOSE: F3 500PPM TOCTL	DISP: Natural Death	HISTO: 21320301029
ORGAN AND ACCOUNTABLE SITE STATUS			
Cyst			
[Cyst TGLS = 2-6]			
* Pancreas	Acinar Cell	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 8-5.2]			
* Spleen	Lymphocyte	Atrophy	Mild
		Pigmentation	Moderate
* Thymus		Atrophy	Moderate
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1030	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Moribund	DAY ON TEST: 742 HISTO: 21320301030
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Minimal
[Degeneration TGLS = 1-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Kidney	Pelvis	Cyst	
	Renal Tubule	Mineralization Mineralization	Minimal Minimal
[Cyst TGLS = 2-2]			
Lung		Inflammation	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Nose		Inflammation	Mild
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 5-5.1]			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1030	TRT#: 16	SEX: Female	DAY ON TEST: 742
	DOSE: F3 5PPM TO CTL	DISP: Moribund	HISTO: 21320301030

ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1031	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301031
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Ovary	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Renal Tubule	Cyst Mineralization	Mild
[Cyst TGLS = 6-2]			
Liver		Vacuolization Cytoplasmic	Mild
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3,4-5.4+5.3+5.5]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1032	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301032
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2,4-5.5+5.2]			
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1032	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301032
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 1,3-5.3+5.4]	Foot	Inflammation	Chronic, Moderate
Spleen		Hematopoietic Cell Proliferation	Minimal
Thymus		Cyst	Mild
Thyroid Gland		Cyst	Squamous, Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1033	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301033
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Ovary
Oviduct	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
		Inflammation	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 3-2]			
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Uterus		Hyperplasia	Cystic, Moderate
		Hyperplasia	Focal, Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1034	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
[Cyst TGLS = 4-2]			
Liver	Biliar Tract	Fibrosis	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 2-5]			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Moderate
[Cyst TGLS = 3-13]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1034	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301034
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1035	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Bone Marrow		Leukemia Mononuclear	
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 11-8]			
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 6-2]			
Liver		Leukemia Mononuclear	
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Axillary	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
[Degeneration TGLS = 9-13.1]			
[Leukemia Mononuclear TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2,3-5.2+5.3+5.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1035	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301035
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-5]			
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 7,8-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1036	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301036
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Mild
Note: PATHOLOGIST NOTED: TGL # 3 ALSO LOCATED ON SLIDE # 6			
[Cyst TGLS = 3-6+13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1036	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301036
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Mild
Thyroid Gland	C Cell	Adenoma	
Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1037	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Nose	Oviduct
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Mild
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland		Inflammation	Mild
[Inflammation TGLS = 10-6.2]			
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 9			
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Mild
Lymph Node	Lumbar	Degeneration	Cystic, Minimal
	Lumbar	Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 3-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1037	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301037
ORGAN AND ACCOUNTABLE SITE STATUS			
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 4,5-5+5.2]			
Ovary		Cyst	
[Cyst TGLS = 2-13]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 6,7,8-5.3+5.4+5.5]			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1038	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301038
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-6.2]			
Eye			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 7-9.1]			
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1038	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301038
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 8,9-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1039	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301039
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Inflammation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver		Cyst	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
[Cyst TGLS = 7-5.6]			
[Hepatocellular Adenoma TGLS = 6-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1039	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301039
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 3-5.3]		Lactation	Mild
		Atrophy	Mild
Ovary		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1040	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301040
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Moderate
		Nephropathy	Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Mild
		Lactation	Moderate
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1040	TRT#: 17	SEX: Female	DAY ON TEST: 754
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301040
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 3-13]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1041	TRT#: 18	SEX: Female	DAY ON TEST: 754
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
[Degeneration TGLS = 3-3]			
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1041	TRT#: 18	SEX: Female	DAY ON TEST: 754
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301041
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas		Polyarteritis	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Thyroid Gland		Cyst	Squamous, Minimal
	C Cell	Hyperplasia	Mild
Uterus		Metaplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1042	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301042
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 3-13]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1042	TRT#: 18	SEX: Female	DAY ON TEST: 754
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301042
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1043	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301043
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
Brain	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Minimal
[Inflammation TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Hyperplasia	Mild
		Lactation	Minimal
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 4-13]			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: PATHOLOGIST NOTED: TGL # 5 ALSO LOCATED ON SLIDE # 8			
[Adenoma TGLS = 5-3+8]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1043	TRT#: 18	SEX: Female	DAY ON TEST: 754
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301043
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1062	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301062
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Ovary		Hyperplasia	Stromal, Marked
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1063	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301063
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Salivary Glands	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Uterus	Vagina
MISSING			
Intestine Small, Ileum	Parathyroid Gland		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Minimal
Ovary		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Mild
Note: TGL # 02 & 03 - NO MICROSCOPIC CORRELATE			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Stomach, Forestomach		Hyperplasia	Mild
[Hyperplasia TGLS = 5-13]			
Thyroid Gland		Cyst	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1063	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301063
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1064

TRT#: 16

SEX: Female

DAY ON TEST: 755

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Moderate
		Nephropathy	Mild
Liver		Basophilic Focus	
		Developmental Malformation	
	Bile Duct	Hyperplasia	Minimal
[Developmental Malformation TGLS = 7-5]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1064	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301064
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5,6-5.2]			
Spleen		Pigmentation	Mild
Uterus		Adenomyosis	Moderate
		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1065	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301065
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lymph Node, Mandibular	Nose	Oviduct
Pancreas	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Parathyroid Gland			
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OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Moderate
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Eye	Retina	Degeneration	Mild
Kidney		Cyst	
		Inflammation	Minimal
	Renal Tubule	Mineralization	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lung			
[Infiltration Cellular TGLS = 4-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Mild
		Lactation	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1065	TRT#: 18	SEX: Female	DAY ON TEST: 754
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301065
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Parathyroid Gland			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Pituitary Gland	Pars Distalis	Adenoma	
Note: PATHOLOGIST NOTED: TGL # 6 ALSO LOCATED ON SLIDE # 8			
[Adenoma TGLS = 6-3+8]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5]			
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1070

TRT#: 15

SEX: Female

DAY ON TEST: 755

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

MISSING

Stomach, Forestomach

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 3-3]		Degeneration	Cystic, Mild
Adrenal Medulla		Hyperplasia	Focal, Mild
Bone, Joint [Inflammation TGLS = 4-13]		Inflammation	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Cyst	
	Renal Tubule	Mineralization	Minimal
		Mineralization	Mild
[Cyst TGLS = 2-2]			
Lung [Infiltration Cellular TGLS = 9-10]		Infiltration Cellular	Histiocyte, Mild
Lymph Node, Mandibular [Infiltration Cellular TGLS = 7-12]		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric [Hemorrhage TGLS = 8-9.1]		Hemorrhage	Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Mild
		Lactation	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1070	TRT#: 15	SEX: Female	DAY ON TEST: 755
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301070
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 1-5.2]			
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Moderate
Pancreas			
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 9A(9.1)			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Spleen		Pigmentation	Minimal
Stom Forestom			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Stomach, Glandular		Erosion	Mild
Thymus		Atrophy	Minimal
[Atrophy TGLS = 5-1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1071	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301071
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Minimal Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Renal Tubule	Cyst Mineralization	Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 2 ON SLIDE # 2A(2.1) [Cyst TGLS = 2-2+2.1]			
Liver	Bile Duct	Hyperplasia Infiltration Cellular	Mild Lymphocyte, Minimal
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Oral Mucosa		Sarcoma	
[Sarcoma TGLS = 3-13]			
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland		Cyst	
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 03 - Noted grossly as Oral Cavity was Oral Mucosa			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1087	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301087
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 4-8]			
Clitoral Gland		Inflammation	Mild
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 2-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Minimal
[Adenocarcinoma TGLS = 3-5.2]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.3]			
Spleen		Pigmentation	Mild
Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1087	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301087
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus	Epithel Cell	Hyperplasia Hyperplasia	Moderate Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1088	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301088
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Mild
Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR TGL # 6 ON SLIDE # 8A(8.1) [Compression TGLS = 6-8.1]			
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Dilatation TGLS = 3-6.2]			
Eye	Retina	Degeneration	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 2,4-5.3+5.4]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1088	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301088
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PATHOLOGIST NOTED: TGL # 5 ALSO LOCATED ON SLIDE # 8 [Adenoma TGLS = 5-3+8]			
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1089

TRT#: 16

SEX: Female

DAY ON TEST: 756

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Atrophy Degeneration Hypertrophy	Marked Cystic, Marked Marked
[Atrophy TGLS = 3-3] [Hypertrophy TGLS = 2-3]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Lactation TGLS = 5-5.2]			
Ovary		Atrophy Hyperplasia	Moderate Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1089	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 756 HISTO: 21320301089
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin			
Note: TGL # 05 - NOTED GROSSLY AS SKIN WAS MAMMARY GLAND			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1090	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301090
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Skin	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy Inflammation	Cystic, Mild Minimal Minimal Minimal
Clitoral Gland			
Eye	Bilateral, Retina	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 1-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland	Alveolus	Hyperplasia Lactation	Minimal Mild
Ovary		Atrophy Cyst	Mild
[Cyst TGLS = 2-13+13.1]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Spleen		Pigmentation	Minimal
Stom Gland			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1090	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301090
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TGL # 04 - NOTED GROSSLY AS STOMACH, GLANDULAR WAS STOMACH, FORESTOMACH			
Stomach, Forestomach		Keratin Cyst	
[Keratin Cyst TGLS = 4-9]			
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1091

TRT#: 16

SEX: Female

DAY ON TEST: 755

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Mild Moderate
Brain			
Note: TGL # 02 - NO MICROSCOPIC CORRELATE			
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
Liver	Bile Duct	Hyperplasia Inflammation Infiltration Cellular	Minimal Chronic Active, Mild Plasma Cell, Mild
Lymph Node, Mandibular		Inflammation	Granulomatous, Minimal
Lymph Node, Mesenteric		Lactation	Mild
Mammary Gland		Inflammation	
Nose	Upper Molar	Cyst	
Ovary		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Inflammation	Chronic, Mild
Skin	Foot		
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1092

TRT#: 16

SEX: Female

DAY ON TEST: 755

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mandibular	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Mild
		Hypertrophy	Moderate
[Hypertrophy TGLS = 6-3]			
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
Lym Node Mand			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 2,3,4-5.3+5.4+5.5]			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 5-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1092	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301092
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Minimal
		Cyst	Mild
Uterus		Metaplasia	Mild
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1093	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301093
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Uterus
Vagina			

MISSING

Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Inflammation	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Angiectasis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1093	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301093
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus			
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 3-3]			
Urin Bladder			
Note: PATHOLOGIST NOTED: MISSING AT TRIM			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1094	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301094
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Stomach, Forestomach

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 7-8]			
Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 4-6.2]		Inflammation	Mild
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-5.3+5.2]		Lactation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:00

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1094	TRT#: 16	SEX: Female	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301094
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5.4]			
Stom Forestom			
Note: PATHOLOGIST NOTED: RECUT ATTEMPTED			
Thymus		Atrophy	Mild
		Cyst	Mild
	Epithel Cell	Hyperplasia	Moderate
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 5-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1095	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301095
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland	Duct	Dilatation	Minimal
Kidney	Renal Tubule	Cyst	
		Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2,3,4,5-5.6+5.5+5.4+5.3]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1095	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301095
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1096	TRT#: 18	SEX: Female	DAY ON TEST: 754
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 10-8]			
Clitoral Gland		Hyperplasia	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
[Cyst TGLS = 7-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 5-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 9-9.2]			
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 1,2,3-5.3+5.5+5.4]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1096	TRT#: 18	SEX: Female	DAY ON TEST: 754
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301096
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Mild
		Cyst	
[Cyst TGLS = 4-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 8-5.2]			
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1097	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301097
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone, Femur	Brain - Cerebellum	Brain - Cerebrum
Clitoral Gland	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Moderate
[Degeneration TGLS = 5-3]			
Adrenal Medulla		Hyperplasia	Focal, Moderate
Bone Marrow		Hypocellularity	Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 14-8]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
	Atrium Lft	Thrombosis	
[Thrombosis TGLS = 11-1]			
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Liver		Angiectasis	Mild
		Atypical Cells	Moderate
		Degeneration	Cystic, Moderate
[Angiectasis TGLS = 3-5.2]	Oval Cell	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 12-10]			
Lymph Node	Pancreatic	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1097	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301097
ORGAN AND ACCOUNTABLE SITE STATUS			
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
	Mediastinal	Infiltration Cellular	Plasma Cell, Mild
[Hemorrhage TGLS = 19-13.2]			
[Infiltration Cellular TGLS = 8-13]			
[Infiltration Cellular TGLS = 13-13.1]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Adenocarcinoma	
		Atypical Focus	
	Alveolus	Hyperplasia	Mild
		Lactation	Minimal
[Adenocarcinoma TGLS = 16-5.4]			
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 6-6]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 15-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 17,18-5.3+5.5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
[Hematopoietic Cell Proliferation TGLS = 4-5]			
Thymus			
Note: TGL # 10 - NO MICROSCOPIC CORRELATE			
Uterus		Adenomyosis	Mild
		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 09 - No section taken (Cavity)			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1103	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301103
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Clitoral Gland		Adenoma	
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Cyst	
		Mineralization	Mild
		Nephropathy	Minimal
Liver	Biliar Tract	Fibrosis	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Cyst	
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thyroid Gland		Cyst	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1103	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301103
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ORGAN AND ACCOUNTABLE SITE STATUS	
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1104	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301104
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Clitoral Gland	Duct	Dilatation	Mild
Eye	Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Degeneration	Cystic, Mild
[Degeneration TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Ovary		Hyperplasia	Stromal, Mild
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Thymus			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1105

TRT#: 15

SEX: Female

DAY ON TEST: 755

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Eye	Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney	Pelvis	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
Note: PATHOLOGIST NOTED: FIBROADENOMA ALSO LOCATED ON SLIDE # 5			
[Fibroadenoma TGLS = 1,2,3-5.2+5.3+5.4]			
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Spleen		Pigmentation	Minimal
Thymus		Thymoma Malignant	
[Thymoma Malignant TGLS = 4-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1106	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301106
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
[Angiectasis TGLS = 10-5]			
Lung			
Note: TGL # 11 - NO MICROSCOPIC CORRELATE			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 8-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 6-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Moderate
		Lactation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1106	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301106
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenocarcinoma TGLS = 2,5-5.3+5.6]			
[Fibroadenoma TGLS = 3,4-5.4+5.5]			
Ovary		Cyst	
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 7-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:00
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1107	TRT#: 18	SEX: Female	DAY ON TEST: 755
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Marked
[Degeneration TGLS = 9-3]			
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 8-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Moderate
Eye	Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
	Atrium Rgt	Dilatation	Mild
[Dilatation TGLS = 14-1]			
Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 10-2]			
Liver		Angiectasis	Moderate
		Basophilic Focus	
		Eosinophilic Focus	
		Necrosis	Mild
[Angiectasis TGLS = 11-5]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1107	TRT#: 18	SEX: Female	DAY ON TEST: 755
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301107
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 6-9.1]			
Mammary Gland		Adenocarcinoma	Multiple
	Alveolus	Degeneration	Moderate
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Moderate
[Adenocarcinoma TGLS = 3,5-5.4+5.6]			
[Fibroadenoma TGLS = 1,2,4,12-5.2+5.3+5.5+5.7]			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin			
Note: TGL # 13 - NO SECTION TAKEN			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Atrophy	Moderate
		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1108	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301108
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Vacuolization Cytoplasmic	Moderate
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Moderate
[Dilatation TGLS = 2-6.2]			
Eye	Retina	Degeneration	Moderate
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 4-2]			
Liver		Degeneration	Cystic, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 3-5.3]			
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1108	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301108
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 5-6.1]		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1109

TRT#: 15

SEX: Female

DAY ON TEST: 755

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Minimal
		Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1110	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301110
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 7-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 9-2]			
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 5-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Atypical Focus	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Mild
		Lactation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1110	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301110
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenocarcinoma TGLS = 3-5.4]			
[Fibroadenoma TGLS = 1,2,4-5.2+5.3+5.5]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Parathyroid Gland		Hyperplasia	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 8-5.6]			
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1111	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301111
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Eye	Retina	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
[Vacuolization Cytoplasmic TGLS = 4-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-5.2+5.3]			
Ovary		Atrophy	Mild
		Cyst	
		Tubulostromal Carcinoma	
[Cyst TGLS = 5-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1111	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301111
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation	Minimal
Vagina		Inflammation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1112	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301112
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Cortex		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 8-3]			
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland	Parenchym Cell	Degeneration	Mild
	Duct	Dilatation	Moderate
Heart		Cardiomyopathy	Mild
Note: TGL # 12 - NO MICROSCOPIC CORRELATE			
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 15-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
	Inguinal	Sarcoma	Metastatic (Skin)
	Popliteal	Sarcoma	Metastatic (Skin)
		Sarcoma	Metastatic (Skin)
[Infiltration Cellular TGLS = 9-13.1]			
[Sarcoma TGLS = 6-13]			
[Sarcoma TGLS = 11-13.3]			
[Sarcoma TGLS = 4-5.5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1112	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301112
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mandibular [Infiltration Cellular TGLS = 7-12]		Infiltration Cellular	Plasma Cell, Moderate
Lymph Node, Mesenteric [Infiltration Cellular TGLS = 10-13.2]		Infiltration Cellular Inflammation	Plasma Cell, Mild Granulomatous, Mild
Mammary Gland Note: TGL # 04 - NOTED GROSSLY AS MAMMARY GLAND WAS LYMPH NODE, INGUINAL [Fibroadenoma TGLS = 3,5-5.4+5.6]		Fibroadenoma Lactation	Multiple Moderate
Ovary		Atrophy Hyperplasia Degeneration	Moderate Stromal, Minimal Marked
Pancreas Pituitary Gland [Adenoma TGLS = 13-3]	Acinar Cell Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 2-5.3] [Sarcoma TGLS = 1-5.2]	Foot	Inflammation Sarcoma	Chronic, Moderate
Spleen [Hematopoietic Cell Proliferation TGLS = 14-5]		Hematopoietic Cell Proliferation	Marked
Thymus Uterus Vagina		Cyst Hyperplasia Inflammation	Mild Cystic, Mild Minimal
PRIMARY CAUSE OF DEATH -			
Animal Note: TGL # 10 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1113	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301113
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node, Mandibular	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Brain	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Lym Node Mand			
Note: TGL # 03 - NO MICROSCOPIC CORRELATE			
Lymph Node	Renal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 6-13]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
[Fibroadenoma TGLS = 4,5-5.4+5.5]			
Ovary		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1,2-5.2+5.3]			
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1114

TRT#: 16

SEX: Female

DAY ON TEST: 755

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
Lung		Atelectasis	Mild
[Atelectasis TGLS = 8-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 6-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 3,4-5.3+5.4]			
Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1114	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301114
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 5-13.1]		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-5.2]			
Spleen		Pigmentation	Mild
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1115

TRT#: 16

SEX: Female

DAY ON TEST: 754

DOSE: F3 5PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Nose	Oviduct	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Clitoral Gland		Inflammation	Marked
Note: PATHOLOGIST NOTED: THE PRESENCE OF MAMMARY GL ADENOCAR ATTACHED TO THE CLITORAL GL SUGGESTS THAT PLACEMENT OF THE TWO MAMMARY GL TUMORS ON SLIDES # 5C AND 5D WERE REVERSED AT TRIM			
[Inflammation TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Moderate
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Adenocarcinoma TGLS = 2-5.3]			
[Fibroadenoma TGLS = 4-5.4]			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 5-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1115	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301115
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Thymus	Epithel Cell	Atrophy	Mild
		Hyperplasia	Mild
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1116	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301116
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Moderate
		Hypertrophy	Mild
Clitoral Gland		Inflammation	Mild
Eye	Retina	Degeneration	Mild
Harderian Gland	Epithelium	Degeneration	Mild
		Hypertrophy	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Necrosis	Minimal
[Hepatodiaphragmatic Nodule TGLS = 2-5]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-5.2]			
Nose	Upper Molar	Inflammation	
Ovary		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1116	TRT#: 16	SEX: Female	DAY ON TEST: 754
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301116
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.3]			
Spleen		Pigmentation	Minimal
Thymus		Atrophy	Moderate
		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1117	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-5]			
Ovary		Cyst	
[Cyst TGLS = 2-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 4-5.2]			
Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1117	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301117
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1118	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 5-8]			
Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 3-6.2]			
Eye	Bilateral, Retina	Degeneration	Mild
Heart		Cardiomyopathy	Mild
Kidney		Cyst	
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
[Cyst TGLS = 4-2]			
Liver		Hematopoietic Cell Proliferation	Minimal
Note: TGL # 01 & 07 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Lactation	Mild
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1118	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301118
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 2-5.2]			
Thymus		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1119	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301119
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Liver	Nose	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Uterus	Vagina	

MISSING

Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Mild
Clitoral Gland	Duct	Dilatation	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney	Renal Tubule	Cyst	
		Mineralization	Moderate
		Nephropathy	Minimal
[Cyst TGLS = 3-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1119	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301119
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 5-3] Urin Bladder Note: PATHOLOGIST NOTED: MISSING AT TRIM	Pars Distalis	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1120

TRT#: 17

SEX: Female

DAY ON TEST: 755

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Blood Vessel	Bone Marrow
Bone, Femur	Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 9-2]			
Liver		Infiltration Cellular	Lymphocyte, Moderate
Note: TGL # 08 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 5-12]			
Lymph Node, Mesenteric		Degeneration	Cystic, Moderate
		Inflammation	Granulomatous, Minimal
[Degeneration TGLS = 10-13]			
[Inflammation TGLS = 12-9.1]			
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Adenocarcinoma TGLS = 4-5.4]			
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1120	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301120
ORGAN AND ACCOUNTABLE SITE STATUS			
		Cyst	
[Cyst TGLS = 6-13.1]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5]			
Thymus		Ectopic Thyroid	
Uterus			
Note: TGL # 07 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH		-	
Animal Note: TGL # 10 - Noted grossly as Mesentery was Lymph Node, Mesenteric			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1121

TRT#: 17

SEX: Female

DAY ON TEST: 755

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Compression	Mild
Brain	Brain Stem		
[Compression TGLS = 7-8]			
Clitoral Gland	Duct	Dilatation	Minimal
		Inflammation	Minimal
[Dilatation TGLS = 2-6.2]			
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
		Basophilic Focus	
Liver	Lumbar	Degeneration	Cystic, Mild
Lymph Node	Renal	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
	Renal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 5-13.1]			
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1121	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301121
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
Note: PATHOLOGIST NOTED: FIBROADENOMA ALSO LOCATED ON SLIDE # 6B(6.2)			
[Fibroadenoma TGLS = 6-5]			
Ovary		Atrophy	Moderate
		Cyst	
		Hyperplasia	Stromal, Minimal
[Cyst TGLS = 3-13.2]			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 9-5.2]			
Spleen		Pigmentation	Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1122	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Pancreas	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 3-8]			
Clitoral Gland	Duct	Dilatation	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Atypical Focus	
		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Adenocarcinoma TGLS = 4-5.2]			
[Fibroadenoma TGLS = 1-5]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1122	TRT#: 17	SEX: Female	DAY ON TEST: 755
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301122
ORGAN AND ACCOUNTABLE SITE STATUS			
Parathyroid Gland		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 5-5.3]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1123	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301123
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Adenoma	
[Adenoma TGLS = 5-2]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
[Adenocarcinoma TGLS = 2-5.2]			
[Fibroadenoma TGLS = 3,4-5.3+5.4]			
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5]			
Spleen		Hematopoietic Cell Proliferation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1124	TRT#: 18	SEX: Female	DAY ON TEST: 755
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	
		Inflammation	Minimal
	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 5-2]			
Liver	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 4-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Galactocoele	Moderate
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Galactocoele TGLS = 3-5.4]			
Ovary		Atrophy	Mild
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1124	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301124
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 8-3]			
Skin	Foot	Cyst Epithelial Inclusion Inflammation	Chronic, Moderate
[Cyst Epithelial Inclusion TGLS = 2-5.3]			
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1125	TRT#: 18	SEX: Female	DAY ON TEST: 755
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mandibular	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Moderate
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lym Node Mand			
Note: TGL # 01 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 2,3-5.2+5.3]			
Ovary		Atrophy	Minimal
		Cyst	
[Cyst TGLS = 4-13]			
Oviduct			
Note: PATHOLOGIST NOTED: LOCATED ON SLIDE # 13			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1125	TRT#: 18	SEX: Female	DAY ON TEST: 755
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301125
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-5.4]			
Thymus		Atrophy	Minimal
	Epithel Cell	Hyperplasia	Mild
Uterus		Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1126

TRT#: 17

SEX: Female

DAY ON TEST: 756

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Clitoral Gland		Hyperplasia	Minimal
		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Moderate
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Degeneration TGLS = 8-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Ovary		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1126	TRT#: 17	SEX: Female	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301126
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Atrophy	Mild
		Cyst	Mild
Uterus		Adenoma	
		Hyperplasia	Cystic, Moderate
		Polyp Stromal	
		Sarcoma Stromal	
Note: PATHOLOGIST NOTED: TGL # 7 ALSO LOCATED ON SLIDE # 6A(6.1) & 6D(6.4)			
[Adenoma TGLS = 5-6.1]			
[Hyperplasia TGLS = 6-6.1]			
[Polyp Stromal TGLS = 7-6.1+6.3+6.4]			
[Sarcoma Stromal TGLS = 4-6.4]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1127

TRT#: 17

SEX: Female

DAY ON TEST: 756

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lymph Node, Mandibular	Nose	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Mild
		Hypertrophy	Moderate
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-10]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
[Fibroadenoma TGLS = 1-5.3]			
Ovary		Cyst	
		Hyperplasia	Stromal, Mild
[Cyst TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1127	TRT#: 17	SEX: Female	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301127
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-5.2]			
Spleen		Pigmentation	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1128	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 756 HISTO: 21320301128
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lymph Node, Mandibular
Nose	Ovary	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Vagina	
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 4-3]		Degeneration	Cystic, Mild
Clitoral Gland		Inflammation	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Lung [Infiltration Cellular TGLS = 6-10]		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland [Fibroadenoma TGLS = 2,3-5.3+5.4]	Alveolus	Fibroadenoma Hyperplasia Lactation	Multiple Minimal Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Mild
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild
Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1129	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 756 HISTO: 21320301129
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia	Cystic, Moderate Mild
[Degeneration TGLS = 4-3]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
Kidney	Pelvis	Mineralization	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Atypical Focus	
		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Uterus		Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1155

TRT#: 17

SEX: Female

DAY ON TEST: 756

DOSE: F3 100PPM TO CTL

DISP: Terminal Sacrifice

HISTO: 21320301155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Nose	Oviduct
Pancreas	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
[Degeneration TGLS = 6-3]			
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Retina	Degeneration	Moderate
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
[Nephropathy TGLS = 3-2]			
Liver			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 2,8-5.4+5.3]			
Ovary		Atrophy	Mild
		Cyst	
		Hyperplasia	Stromal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1155	TRT#: 17	SEX: Female	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301155
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 4-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5.2]			
Uterus			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1156

TRT#: 15

SEX: Female

DAY ON TEST: 756

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Mild
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node	Lumbar	Degeneration	Cystic, Marked
[Degeneration TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
Ovary		Atrophy	Moderate
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1156	TRT#: 15	SEX: Female	DAY ON TEST: 756
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301156
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Cyst	Moderate
Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1157

TRT#: 15

SEX: Female

DAY ON TEST: 756

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node, Mandibular	Nose	Ovary	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 2-3]		Degeneration	Cystic, Moderate
Brain	Brain Stem	Compression	Mild
Clitoral Gland		Inflammation	Minimal
Eye	Retina	Degeneration	Moderate
Harderian Gland		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node [Degeneration TGLS = 3-13]	Lumbar	Degeneration	Cystic, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
		Lactation	Minimal
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1158	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 756 HISTO: 21320301158
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Nose	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
Clitoral Gland		Inflammation	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Cyst	
		Mineralization	Minimal
[Cyst TGLS = 3-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Lactation	Minimal
[Fibroadenoma TGLS = 2-5.3]			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Foot	Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1159

TRT#: 15

SEX: Female

DAY ON TEST: 756

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Liver	Lung	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Vagina	

OBSERVATIONS

Adrenal Cortex		Degeneration Hypertrophy	Cystic, Moderate Moderate
[Degeneration TGLS = 4-3]			
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 6-8]			
Clitoral Gland		Inflammation	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Lymph Node	Lumbar	Degeneration	Cystic, Mild
[Infiltration Cellular TGLS = 5-13]	Lumbar	Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Mild
[Fibroadenoma TGLS = 2,3-5.3+5.4]		Lactation	Mild
Nose		Inflammation	Minimal
Ovary		Atrophy	Minimal
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1159	TRT#: 15	SEX: Female	DAY ON TEST: 756
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301159
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 7-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1160

TRT#: 15

SEX: Female

DAY ON TEST: 754

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Clitoral Gland	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina

AUTO PRECLUDES DIAG.

Intestine Small, Jejunum

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Mild
[Degeneration TGLS = 8-3]			
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 6-8]			
Harderian Gland	Epithelium	Degeneration	Minimal
		Hypertrophy	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
		Lactation	Mild

Note: PATHOLOGIST NOTED: FIBROADENOMA ALSO LOCATED ON SLIDE # 5

[Adenocarcinoma TGLS = 1-5.3]

[Fibroadenoma TGLS = 2,3-5.4+5.5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1160	TRT#: 15	SEX: Female	DAY ON TEST: 754
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301160
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 7-5.2]			
Thymus		Cyst	Mild
Uterus		Metaplasia	Mild
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1161	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301161
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Nose
Oviduct	Pancreas	Parathyroid Gland	Salivary Glands
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia Hypertrophy Vacuolization Cytoplasmic	Cystic, Moderate Minimal Moderate Mild
[Degeneration TGLS = 3-3]			
Brain	Brain Stem	Compression	Minimal
Clitoral Gland	Parenchym Cell	Degeneration	Mild
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Degeneration	Moderate
	Alveolus	Fibroadenoma	
		Hyperplasia	Minimal
		Lactation	Moderate
[Fibroadenoma TGLS = 2-5.3]			
Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1161	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301161
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
Stomach, Forestomach		Hyperplasia	Mild
		Inflammation	Minimal
[Hyperplasia TGLS = 5-9]			
Thymus		Atrophy	Moderate
		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1162

TRT#: 15

SEX: Female

DAY ON TEST: 754

DOSE: F3 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320301162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Uterus	Vagina	

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Marked
Brain	Brain Stem	Compression	Minimal
[Compression TGLS = 3-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
	Renal Tubule	Mineralization	Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Vacuolization Cytoplasmic	Focal
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 1,2-5.2+5.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1162	TRT#: 15	SEX: Female	DAY ON TEST: 754
	DOSE: F3 0 PPM	DISP: Terminal Sacrifice	HISTO: 21320301162
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen		Pigmentation	Minimal
Thymus			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Urinary Bladder		Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1163	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301163
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mandibular
Nose	Oviduct	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	

MISSING

Clitoral Gland			
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OBSERVATIONS

Adrenal Cortex [Degeneration TGLS = 6-3]		Degeneration	Cystic, Mild
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gl Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Harderian Gland	Epithelium	Degeneration	Mild
Heart [Thrombosis TGLS = 9-1]	Atrium Lft	Cardiomyopathy Thrombosis	Mild
Kidney [Cyst TGLS = 5-2]	Renal Tubule	Cyst Mineralization Nephropathy	Mild Moderate
Liver [Basophilic Focus TGLS = 10-5]	Bile Duct	Basophilic Focus Hyperplasia	Mild
Lung [Infiltration Cellular TGLS = 11-10]		Infiltration Cellular	Histiocyte, Moderate
Lymph Node [Infiltration Cellular TGLS = 7-13.1]	Lumbar	Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1163	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301163
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland	Alveolus	Degeneration Fibroadenoma Lactation	Moderate Minimal
[Fibroadenoma TGLS = 2-5.2]			
Ovary		Atrophy Cyst	Moderate
[Cyst TGLS = 3-6]			
Pancreas	Acinar Cell	Degeneration	Minimal
Parathyroid Gland		Hyperplasia	Diffuse, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 13-3]			
Skeletal Muscle		Cyst	
[Cyst TGLS = 8-13]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5.3]			
Spleen	Lymphocyte	Atrophy Hematopoietic Cell Proliferation	Mild Mild
Thymus		Atrophy Cyst	Mild Mild
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 13			
[Atrophy TGLS = 12-1]			
Urinary Bladder		Hyperplasia	Moderate
Note: PATHOLOGIST NOTED: ALSO LOCATED ON SLIDE # 6B(6.2)			
Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 4-6.1]			
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 08 - Noted grossly as Bone was Skeletal Muscle			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1164	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301164
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Oviduct	Parathyroid Gland
Salivary Glands	Spleen	Stomach, Forestomach	Stomach, Glandular
Trachea	Urinary Bladder	Vagina	

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration Hyperplasia	Cystic, Mild Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Cyst Mineralization	Moderate
[Cyst TGLS = 5-2]			
Liver	Biliar Tract	Fibrosis	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Mild
		Lactation	Mild
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Cyst Hyperplasia	Stromal, Mild
[Cyst TGLS = 2,3-13]			
Pancreas	Acinar Cell	Degeneration	Mild
		Polyarteritis	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1164	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 752 HISTO: 21320301164
ORGAN AND ACCOUNTABLE SITE STATUS			
Skin [Inflammation TGLS = 1-5.2]	Foot	Inflammation	Chronic, Moderate
Thymus Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1165	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland	Esophagus
Eye	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Islets, Pancreatic
Lymph Node, Mandibular	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach, Glandular	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Small, Jejunum		Leiomyosarcoma	
[Leiomyosarcoma TGLS = 4-9.2]			
Kidney	Pelvis	Mineralization	Mild
Liver		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-10]			
Lymph Node, Mesenteric		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
[Leiomyosarcoma TGLS = 6-9.1]			
Mammary Gland		Lactation	Minimal
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Minimal
Oviduct		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 1-5]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1165	TRT#: 16	SEX: Female	DAY ON TEST: 755
	DOSE: F3 5PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301165
ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach		Dilatation	
[Dilatation TGLS = 5-9]			
Stomach, Forestomach		Hyperplasia	Minimal
		Inflammation	Mild
Thymus		Cyst	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
Uterus		Adenomyosis	Mild
		Hyperplasia	Cystic, Moderate
		Leiomyoma	
		Metaplasia	Minimal
[Hyperplasia TGLS = 3-6.1]			
[Leiomyoma TGLS = 2-6.3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1166	TRT#: 16 DOSE: F3 5PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301166
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Oviduct
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration Hyperplasia Hypertrophy Cardiomyopathy Cyst	Cystic, Mild Mild Mild Mild
Heart			
Kidney			
[Cyst TGLS = 3-2]			
Lung	Alveolar Epith	Hyperplasia	Mild
Lymph Node, Mandibular		Cyst	Mild
		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Minimal
[Fibroadenoma TGLS = 1,2-5.2+5.3]			
Nose	Upper Molar	Inflammation	
Ovary		Atrophy Cyst	Minimal
[Cyst TGLS = 4-13]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1167	TRT#: 17	SEX: Female	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lung
Nose	Ovary	Oviduct	Parathyroid Gland
Salivary Glands	Stomach, Forestomach	Stomach, Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Vagina

OBSERVATIONS

Adrenal Cortex		Angiectasis	Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 2-8]			
Clitoral Gland		Adenoma	
Eye	Bilateral, Retina	Degeneration	Moderate
Harderian Gland	Epithelium	Degeneration	Minimal
Kidney		Cyst	
		Infarct	Minimal
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 6-2]			
Liver	Bile Duct	Hyperplasia	Mild
		Pigmentation	Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Lactation	Mild
[Adenocarcinoma TGLS = 4-5.2]			
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1167	TRT#: 17	SEX: Female	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301167
ORGAN AND ACCOUNTABLE SITE STATUS			
[Inflammation TGLS = 1-5.3]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Minimal
Uterus			
Note: TGL # 05 - NO MICROSCOPIC CORRELATE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1168	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301168
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Thymus

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Marked
Harderian Gland		Hypertrophy	Minimal
Kidney		Nephropathy	Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	Multiple
		Lactation	Mild
[Fibroadenoma TGLS = 2,3-5.3+5.4]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Thymus			
Note: PATHOLOGIST NOTED: AREA TRIMMED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1168	TRT#: 17 DOSE: F3 100PPM TO CTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301168
ORGAN AND ACCOUNTABLE SITE STATUS			
Uterus [Hyperplasia TGLS = 4-6.1]		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1169

TRT#: 18

SEX: Female

DAY ON TEST: 755

DOSE: F3 500PPM TOCTL

DISP: Terminal Sacrifice

HISTO: 21320301169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Heart	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Vagina

OBSERVATIONS

Adrenal Cortex		Atrophy	Moderate
		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Adrenal Medulla		Pheochromocytoma Benign	
Clitoral Gland	Parenchym Cell	Degeneration	Moderate
	Duct	Dilatation	Moderate
		Inflammation	Minimal
[Degeneration TGLS = 3-6.2]			
Harderian Gland	Epithelium	Degeneration	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Renal Tubule	Mineralization	Mild
Liver		Cyst	
	Bile Duct	Hyperplasia	Minimal
[Cyst TGLS = 6,7,8-5+5.2+5.3]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-13]			
Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Infiltration Cellular	Plasma Cell, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1169	TRT#: 18	SEX: Female	DAY ON TEST: 755
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301169
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland	Alveolus	Degeneration	Mild
Nose	Nasolacrim Dct	Inflammation	Mild
Ovary		Atrophy	Marked
		Hyperplasia	Stromal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1,2-13]			
Spleen		Pigmentation	Moderate
Thymus		Cyst	Mild
Vagina			
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1170	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301170
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Kidney	Lung	Oviduct
Pancreas	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Moderate
		Hyperplasia	Minimal
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Inflammation TGLS = 1-6.2]			
Liver		Vacuolization Cytoplasmic	Moderate
Lung			
Note: TGL # 05 - NO SECTION TAKEN			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Degeneration	Minimal
		Galactoceles	Moderate
		Lactation	Minimal
[Galactoceles TGLS = 2-5.2]			
Nose		Inflammation	Mild
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 4-11]			
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1170	TRT#: 18	SEX: Female	DAY ON TEST: 755
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301170
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 6-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 3-5.2]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: TGL # 04 - Noted grossly as Oral Cavity was Nose			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1171	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301171
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Islets, Pancreatic	Lung	Oviduct
Parathyroid Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Trachea	Vagina
OBSERVATIONS			
Adrenal Cortex		Adenoma Hypertrophy	Minimal
[Adenoma TGLS = 4-3] [Hypertrophy TGLS = 5-3]			
Adrenal Medulla		Hyperplasia	Focal, Minimal
Brain	Brain Stem	Compression	Moderate
[Compression TGLS = 9-8]			
Clitoral Gland	Parenchym Cell	Degeneration	Mild
		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Epithelium, Pelvis	Hyperplasia	Mild
		Inflammation	Mild
	Pelvis	Mineralization	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	Multiple
		Atypical Focus	
	Alveolus	Hyperplasia	Marked
		Lactation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1171

TRT#: 18

SEX: Female

DAY ON TEST: 755

DOSE: F3 500PPM TOCTL

DISP: Terminal Sacrifice

HISTO: 21320301171

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PATHOLOGIST NOTED: WET TISSUE REQUESTED FOR SKIN/MAMMARY ON SLIDE # 5D(5.4)

[Adenocarcinoma TGLS = 1-5.2+5.4]

[Hyperplasia TGLS = 2-5.3]

Nose Squamous Cell Carcinoma
Ovary Atrophy

Mild

Cyst

Hyperplasia

Stromal, Mild

[Cyst TGLS = 7-13]

Pancreas Acinar Cell
Pituitary Gland Pars Distalis

Degeneration

Adenoma

Minimal

[Adenoma TGLS = 10-3]

Spleen Pigmentation
Thyroid Gland Adenoma

Minimal

Urinary Bladder C Cell
Hyperplasia
Inflammation

Moderate

Mild

[Hyperplasia TGLS = 8-2]

Uterus Hyperplasia
Polyp Stromal

Cystic, Minimal

[Polyp Stromal TGLS = 6-6.1]

PRIMARY CAUSE OF DEATH

-

Animal Note: Pathologist noted : Tooth, malformation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1172	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301172
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Heart	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Nose
Oviduct	Parathyroid Gland	Salivary Glands	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

MISSING

Lymph Node

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Brain	Brain Stem	Compression	Mild
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Mild
[Dilatation TGLS = 2-6.2]			
Kidney	Renal Tubule	Mineralization	Mild
Lymph Node			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE (LYMPH NODE, LUMBAR)			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
		Lactation	Minimal
Note: PATHOLOGIST NOTED: ADENOCARCINOMA LOCATED ON SLIDE # 13			
[Fibroadenoma TGLS = 3-5.3]			
Ovary		Atrophy	Mild
		Hyperplasia	Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1172	TRT#: 18	SEX: Female	DAY ON TEST: 753
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301172
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Skin	Foot	Inflammation	Chronic, Mild
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Mild
Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 6-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1173	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301173
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Eye
Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Thyroid Gland	Trachea	Urinary Bladder
OBSERVATIONS			
Adrenal Cortex [Degeneration TGLS = 6-3]		Degeneration	Cystic, Moderate
Brain [Compression TGLS = 10-8]	Brain Stem	Compression	Mild
Clitoral Gland [Degeneration TGLS = 2-6.2]	Parenchym Cell	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lung [Infiltration Cellular TGLS = 12-10]		Infiltration Cellular	Histiocyte, Minimal
Lymph Node [Infiltration Cellular TGLS = 7-13]	Lumbar Lumbar	Degeneration Infiltration Cellular	Cystic, Minimal Plasma Cell, Mild
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Degeneration	Mild
	Alveolus	Fibroadenoma	Multiple
		Hyperplasia	Minimal
		Lactation	Mild
[Fibroadenoma TGLS = 1,3,4,5-5.2+5.3+5.4+5.5]			
Ovary		Atrophy Hyperplasia	Moderate Stromal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1173	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301173
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland [Adenoma TGLS = 9-3]	Pars Distalis	Adenoma	
Skin [Inflammation TGLS = 11-5.6]	Foot	Inflammation	Chronic, Moderate
Spleen		Pigmentation	Mild
Stomach, Glandular [Erosion TGLS = 13-9]		Erosion	Mild
Thymus		Atrophy	Mild
[Atrophy TGLS = 8-1]		Cyst	Mild
Uterus		Hyperplasia	Cystic, Minimal
Vagina		Inflammation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1174

TRT#: 18

SEX: Female

DAY ON TEST: 752

DOSE: F3 500PPM TOCTL

DISP: Terminal Sacrifice

HISTO: 21320301174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Clitoral Gland
Esophagus	Eye	Harderian Gland	Heart
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Nose	Ovary
Oviduct	Parathyroid Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Uterus	Vagina		

MISSING

Urinary Bladder

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Minimal
Islets, Pancreatic		Adenoma	
Kidney		Cyst	
	Pelvis	Mineralization	Minimal
	Renal Tubule	Mineralization	Mild
[Cyst TGLS = 2-2]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland	Alveolus	Hyperplasia	Minimal
Pancreas	Acinar Cell	Degeneration	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLS = 1-3]			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Thymus		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1174	TRT#: 18	SEX: Female	DAY ON TEST: 752
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301174

ORGAN AND ACCOUNTABLE SITE STATUS

Urin Bladder
Note: PATHOLOGIST NOTED: WET TISSUE ATTEMPTED

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1194	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301194
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone Marrow	Bone, Femur	Brain - Cerebellum
Brain - Cerebrum	Esophagus	Eye	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Liver	Nose	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
Adrenal Medulla		Hyperplasia	Focal, Mild
Brain	Brain Stem	Compression	Mild
[Compression TGLS = 7-8]			
Clitoral Gland		Inflammation	Minimal
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Cyst	
	Renal Tubule	Inflammation	Minimal
		Mineralization	Mild
[Cyst TGLS = 6-2]			
Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 9-10]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-12]			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	Multiple
	Alveolus	Hyperplasia	Minimal
[Fibroadenoma TGLS = 2,5-5.3+5.5]			
[Hyperplasia TGLS = 4-5.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1194	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301194
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Hyperplasia	Stromal, Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
Skin	Foot	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-5.2]			
Spleen		Hematopoietic Cell Proliferation	Minimal
Thyroid Gland		Cyst	Squamous, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1195	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301195
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Kidney	Liver	Lymph Node	Lymph Node, Mandibular
Mammary Gland	Ovary	Oviduct	Pancreas
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Vagina			
OBSERVATIONS			
Adrenal Cortex		Degeneration Hypertrophy	Cystic, Minimal Mild
Clitoral Gland		Adenoma Inflammation	Mild
[Adenoma TGLS = 2-6.2]			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: TGL # 04 - NO MICROSCOPIC CORRELATE			
Lymph Node, Mesenteric		Inflammation	Granulomatous, Moderate
Mammary Gland			
Note: TGL # 04 - NOTED GROSSLY AS MAMMARY GLAND WAS LYMPH NODE			
Nose	Nasolacrim Dct	Inflammation	Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Minimal
Thymus		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1195	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 755 HISTO: 21320301195
ORGAN AND ACCOUNTABLE SITE STATUS			
	Epithel Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1196	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301196
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Blood Vessel	Bone Marrow	Bone, Femur	Brain - Brain Stem
Brain - Cerebellum	Brain - Cerebrum	Esophagus	Harderian Gland
Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Oviduct
Parathyroid Gland	Salivary Glands	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	Vagina
OBSERVATIONS			
Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Adrenal Medulla		Hyperplasia	Focal, Mild
Clitoral Gland		Inflammation	Minimal
Eye	Bilateral, Retina	Degeneration	Moderate
Heart		Cardiomyopathy	Minimal
Int Lg Cecum			
Note: TGL # 09 - NO MICROSCOPIC CORRELATE			
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Mild
[Angiectasis TGLS = 5-5]			
Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 6,7,8-10.1+10.3+10.2]			
Lymph Node	Lumbar	Degeneration	Cystic, Mild
	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 3-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
		Lactation	Mild
[Fibroadenoma TGLS = 2-5.3]			
Nose		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1196	TRT#: 15 DOSE: F3 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 754 HISTO: 21320301196
ORGAN AND ACCOUNTABLE SITE STATUS			
Ovary		Atrophy	Minimal
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-5.2]			
Spleen		Pigmentation	Moderate
Thymus		Atrophy	Minimal
		Cyst	Minimal
Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92

Test Type: MULTIGEN CHRONIC

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:20:01

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 1197	TRT#: 17	SEX: Female	DAY ON TEST: 756
	DOSE: F3 100PPM TO CTL	DISP: Terminal Sacrifice	HISTO: 21320301197
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Acinar Cell	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
Spleen		Pigmentation	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1198	TRT#: 18	SEX: Female	DAY ON TEST: 753
	DOSE: F3 500PPM TOCTL	DISP: Terminal Sacrifice	HISTO: 21320301198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Medulla	Blood Vessel	Bone Marrow	Bone, Femur
Brain - Brain Stem	Brain - Cerebellum	Brain - Cerebrum	Esophagus
Eye	Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum
Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Nose	Oviduct	Parathyroid Gland	Salivary Glands
Stomach, Forestomach	Stomach, Glandular	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Adrenal Cortex		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
Clitoral Gland		Inflammation	Minimal
Note: TGL # 10 - NO MICROSCOPIC CORRELATE			
Harderian Gland	Epithelium	Degeneration	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	
		Congestion	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Note: TGL # 06 - NO MICROSCOPIC CORRELATE			
[Eosinophilic Focus TGLS = 5-5]			
Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 8-10]			
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 7-13]			
Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
Lymph Node, Mesenteric		Inflammation	Granulomatous, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:20:01
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 1198	TRT#: 18 DOSE: F3 500PPM TOCTL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 753 HISTO: 21320301198
ORGAN AND ACCOUNTABLE SITE STATUS			
	Alveolus	Hyperplasia Lactation	Minimal Mild
[Adenocarcinoma TGLS = 4-5.4] [Fibroadenoma TGLS = 3-5.3]			
Ovary		Atrophy Hyperplasia	Moderate Stromal, Mild
Pancreas	Acinar Cell	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLS = 9-3]			
Skin	Foot	Inflammation	Chronic, Moderate
[Inflammation TGLS = 1,2-5.2]			
Spleen	Lymphocyte	Atrophy Pigmentation	Mild Mild
Thymus		Cyst	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Hyperplasia Metaplasia	Cystic, Mild Minimal
PRIMARY CAUSE OF DEATH	-		

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE