

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:45
First Dose M/F: NA / NA
Lab: HLA

C Number:	C99990
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	04/11/1989

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:45
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 11	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 419 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Lung		Inflammation	Granulomatous, Focal, Minimal
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 12	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 419 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Kidney		Nephropathy	Minimal
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Nose		Hemorrhage	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 419

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney
Liver
Preputial Gland
Prostate
Testes

Bile Duct

Bilateral, Interstit Cell

Nephropathy
Hyperplasia
Adenoma
Inflammation
Adenoma
Hypospermia

Mild
Minimal
Chronic Active, Minimal
Mild

Note: HYOSPERMIA TGLs = 1-8

Note: ADENOMA TGLs = 2-8.1

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 14	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 419 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
		Infarct	Marked
Note: LIVER INFARCT COMPATIBLE WITH TORSION OF ACC. LOBE.			
Note: INFARCT TGLs = 1-3.1			
[Hepatodiaphragmatic Nodule TGLS = 2-3.1]			
Pancreas	Acinus	Atrophy	Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 419

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Mediastinal	Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 3-14			
Mesentery		Hemorrhage	Marked
	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 1-13			
Note: HEMORRHAGE TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 419

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Zymbal's Gland			

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Necrosis	Focal, Marked
Note: IATROGENIC HEPATIC NECROSIS. [Necrosis TGLS = 3-3.1]			
Nose		Hemorrhage	Mild
Preputial Gland	Duct	Ectasia	Marked
		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8+8.1			
Thymus	Epithel Cell	Hyperplasia	Mild
Urinary Bladder	Lumen	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 1-8.2			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 419

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Nose		Foreign Body	Minimal
		Hemorrhage	Mild
		Inflammation	Suppurative, Minimal
Prostate		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 419

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Zymbal's Gland	

MISSING

Mammary Gland

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
Note: CATARACT	TGLs = 2-13		
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Nose		Foreign Body	Minimal
		Inflammation	Suppurative, Minimal
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 19	TRT#: 1	SEX: Male	DAY ON TEST: 419
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	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
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
Note: PIGMENT	TGLs = 2-13		
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 1-14		
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild
		Hypospermia	Mild
Thymus		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 20	TRT#: 1	SEX: Male	DAY ON TEST: 419
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Heart	Myocardium	Necrosis	Focal, Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Necrosis	Coagulative, Multifocal, Minimal
Note: NECROSIS	TGLs = 1-3.1		
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 21	TRT#: 1	SEX: Male	DAY ON TEST: 419
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Nose	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Serosa	Cyst	
	Serosa	Fibrosis	Focal, Moderate
	Bile Duct	Hyperplasia	Mild
	Serosa	Pigmentation	Hemosiderin, Focal, Moderate
[Fibrosis TGLS = 1-3.1]			
[Hyperplasia TGLS = 1-3.1]			
[Pigmentation TGLS = 3-3.2]			
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 419

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

Epididymis

Esophagus

Intestine Large - Cecum

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Preputial Gland

Prostate

Salivary Glands

Seminal Vesicle

Skin

Spleen

Stomach - Forestomach

Thymus

Trachea

Urinary Bladder

Zymbal's Gland

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Intestine Large

Colon

Parasite Metazoan

Minimal

Kidney

Nephropathy

Mild

Liver

Bile Duct

Hyperplasia

Minimal

Lung

Inflammation

Acute, Multifocal, Minimal

Stomach

Glandular

Infiltration Cellular

Histiocyte, Minimal

Testes

Degeneration

Hyperplasia

Cystic, Minimal

Thyroid Gland

Interstitial Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 23 TRT#: 1 SEX: Male DAY ON TEST: 426
DOSE: CONTROL DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Mammary Gland Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Acute, Focal, Minimal
Preputial Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8.2			
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 24	TRT#: 1	SEX: Male	DAY ON TEST: 419
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Minimal
Prostate		Inflammation	Chronic Active, Mild
Spleen	Capsule	Fibrosis	Focal, Mild
[Fibrosis TGLS = 1-3]			
Testes	Interstit Cell	Adenoma	
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 25	TRT#: 1	SEX: Male	DAY ON TEST: 419
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Acute, Focal, Minimal
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 419

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Skin
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Prostate
Spleen
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Thymus

MISSING

Mammary Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Hemorrhage
Hyperplasia
Inflammation

Mild
Mild
Focal, Mild
Mild
Granulomatous, Multifocal, Minimal

Bile Duct

Note: HEMORRHAGE TGLs = 1-3.1

Stomach
Testes
Thyroid Gland

Glandular
Interstit Cell

Degeneration
Hyperplasia
Ultimobranchial Cyst

Cystic, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Liver		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Mild
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Lymph Node	Bronchial	Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 3-13		
Testes		Hyospermia	Marked
		Mineralization	Mild
Note: HYOSPERMIA	TGLs = 1-8		
Note: MINERALIZATION	TGLs = 2-8		
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 28	TRT#: 1	SEX: Male	DAY ON TEST: 420
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstitial Cell	Adenoma	
		Hypospermia	Marked
		Mineralization	Mild

Note: HYOSPERMIA TGLs = 1-8.1
Note: MINERALIZATION TGLs = 2-8.1

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

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

Mammary Gland

Pancreas

Parathyroid Gland

Pituitary Gland

Preputial Gland

Salivary Glands

Seminal Vesicle

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Zymbal's Gland

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Intestine Large

Rectum

Parasite Metazoan

Mild

Kidney

Nephropathy

Minimal

Liver

Bile Duct

Hyperplasia

Mild

Nose

Hemorrhage

Mild

Prostate

Inflammation

Chronic Active, Mild

Testes

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 30	TRT#: 1	SEX: Male	DAY ON TEST: 420
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Pituitary Gland		Cyst	
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Kidney
Preputial Gland
Prostate
Testes

Interstitial Cell

Nephropathy
Inflammation
Inflammation
Hyperplasia

Mild
Chronic Active, Mild
Chronic Active, Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 32	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 420 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 33	TRT#: 1	SEX: Male	DAY ON TEST: 420
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 35	TRT#: 1	SEX: Male	DAY ON TEST: 420
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 36	TRT#: 1	SEX: Male	DAY ON TEST: 420
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Hemosiderin, Mild
Note: PIGMENT	TGLs = 3-13		
Note: HEMORRHAGE	TGLs = 3-13		
Nose		Hemorrhage	Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes		Hypospermia	Moderate
Note: HYOSPERMIA	TGLs = 1-8+8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 38	TRT#: 1	SEX: Male	DAY ON TEST: 420
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Testes	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Kidney
Liver
Note: ANOM HEPAT LOB TGLs = 2-3.1
Prostate
Testes
Note: HYOSPERMIA TGLs = 1-8+8.1
Thyroid Gland

Follicular Cel

Nephropathy
Hepatodiaphragmatic Nodule
Inflammation
Hyospermia
Adenoma

Mild
Chronic Active, Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney
Liver
Lymph Node

Note: HEMORRHAGE
Prostate
Testes

TGLs = 1-7

Bile Duct
Mesenteric
Mesenteric

Interstitial Cell

Nephropathy
Hyperplasia
Hemorrhage
Hyperplasia

Inflammation
Hyperplasia

Minimal
Minimal
Moderate
Reticulum Cell, Mild

Chronic Active, Moderate
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 41	TRT#: 1	SEX: Male	DAY ON TEST: 420
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Thymus

OBSERVATIONS

Kidney		Hydronephrosis	Mild
		Nephropathy	Mild
Note: HYDRONEPHROSIS TGLs = 2-5			
Liver	Bile Duct	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-2]			
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 42	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 420 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	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
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 43	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 420 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Pancreas	Acinus	Atrophy	Minimal
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Kidney		Nephropathy	Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-9			
Pancreas	Acinus	Atrophy	Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 1-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Prostate
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Kidney
Liver
Preputial Gland
Stomach
Testes

Bile Duct
Glandular
Interstit Cell

Nephropathy
Hyperplasia
Inflammation
Degeneration
Hyperplasia

Mild
Mild
Chronic Active, Minimal
Cystic, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 47	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 421 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 48	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 421 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 49	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 50	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Preputial Gland
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Prostate
Spleen
Thyroid Gland

MISSING

Mammary Gland

OBSERVATIONS

Kidney
Liver

Bile Duct

Lung
Pancreas
Pituitary Gland
Testes

Acinus
Pars Distalis
Interstit Cell

Nephropathy
Basophilic Focus
Hyperplasia
Infiltration Cellular
Atrophy
Hyperplasia
Hyperplasia

Mild
Mild
Mild
Histiocyte, Minimal
Mild
Focal, Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 52	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Inflammation	Acute, Focal, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 53	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney		Nephropathy	Mild
Prostate		Inflammation	Chronic Active, Moderate
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

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

Mammary Gland

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Preputial Gland

Salivary Glands

Seminal Vesicle

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thyroid Gland

Trachea

Urinary Bladder

Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Intestine Large

Rectum

Parasite Metazoan

Moderate

Kidney

Nephropathy

Minimal

Liver

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Mild

Note: ANOM HEPAT LOB TGLs = 1-3.1

Prostate

Inflammation

Chronic Active, Mild

Testes

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 55	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Skin	Subcut Tiss	Fibrosarcoma	
		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-13		
Note: FIBROSARC	TGLs = 2-14		
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Liver
Nose
Prostate
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Intestine Large
Kidney
Lung
Preputial Gland
Testes

Rectum

Parasite Metazoan
Nephropathy
Infiltration Cellular
Inflammation
Adenoma

Mild
Mild
Histocyte, Minimal
Chronic Active, Mild

Bilateral, Interstit Cell

Note: ADENOMA TGLs = 1,2-8+8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Mild
Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 2-4.1]			
Prostate		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 1-8.2			
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 58	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Kidney		Nephropathy	Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 59	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	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	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 60	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Testes	Interstit Cell	Hyperplasia	Mild
		Hypospermia	Minimal
		Mineralization	Minimal
Thymus	Epithel Cell	Hyperplasia	Mild
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	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
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Prostate		Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
Testes	Interstitial Cell	Hyperplasia	Mild
		Hypospermia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 62 TRT#: 1 SEX: Male DAY ON TEST: 421
DOSE: CONTROL DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pituitary Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Pancreas	Acinus	Atrophy	Mild
Preputial Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 1-8.2			
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 63

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Skin
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Spleen
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

MISSING

Zymbal's Gland

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Pituitary Gland		Cyst	
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 64	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Kidney		Nephropathy	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hemorrhage	Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 65

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Preputial Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Testes
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus
Zymbal's Gland

OBSERVATIONS

Intestine Large
Kidney
Liver
Pituitary Gland
Prostate
Stomach

Colon
Bile Duct
Pars Distalis
Glandular

Parasite Metazoan
Nephropathy
Hyperplasia
Hyperplasia
Inflammation
Degeneration

Mild
Minimal
Mild
Focal, Mild
Chronic Active, Mild
Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 66	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Mammary Gland

OBSERVATIONS

Intestine Large	Cecum	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild
		Hypospermia	Minimal
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 67	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 421 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 68

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

OBSERVATIONS

Intestine Large
Kidney
Liver
Prostate
Stomach
Testes

Colon
Bile Duct
Glandular
Interstit Cell

Parasite Metazoan
Nephropathy
Hyperplasia
Inflammation
Degeneration
Hyperplasia

Mild
Mild
Minimal
Chronic Active, Minimal
Cystic, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 69

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Nose
Preputial Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thymus
Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Intestine Large
Kidney
Liver

Rectum

Parasite Metazoan
Nephropathy
Necrosis

Mild
Minimal
Focal, Marked

Note: NECROSIS TGLs = 1-3.1

Note: IATROGENIC HEPATIC NECROSIS.

Prostate

Inflammation

Chronic Active, Mild

Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 70

TRT#: 1

SEX: Male

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thyroid Gland

OBSERVATIONS

Kidney
Liver
 Note: INFARCT TGLs = 1-3.1
Lung
Pancreas
Prostate
Stomach
Testes

Caudate Lobe

Alveolar Epith

Glandular
Interstit Cell

Nephropathy
Infarct

Hyperplasia
Inflammation
Inflammation
Degeneration
Hyperplasia

Minimal
Marked

Focal, Moderate
Chronic, Mild
Chronic Active, Mild
Cystic, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 141

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Preputial Gland
Skin
Thymus
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Ileum
Nose
Prostate
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Intestine Large
Kidney
Liver

Rectum

Parasite Metazoan
Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus

Mild
Mild
Mild
Cystic, Minimal
Mild

Note: MIXED CL FOCUS TGLs = 3-3.1
[Mixed Cell Focus TGLS = 3-3.1]

Lung
Lymph Node
Pituitary Gland
Testes

Mandibular, Sinus

Infiltration Cellular
Ectasia
Cyst
Adenoma
Hyperplasia

Histiocyte, Minimal
Mild

Mild

Note: ADENOMA TGLs = 2-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 142

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Mild
		Necrosis	Focal, Marked
<p>Note: IATROGENIC HEPATIC NECROSIS. [Degeneration TGLS = 5-3.1] [Mixed Cell Focus TGLS = 5-3.1] [Necrosis TGLS = 4-3.1]</p>			
Mesentery	Fat	Necrosis	Focal, Mild
Note: NECROSIS	TGLs = 3-13		
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8.1		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Skin
Thymus
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Pancreas
Prostate
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus
Hyperplasia

Mild
Minimal
Cystic, Minimal
Mild
Mild

Testes

Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 144

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Mammary Gland

Skin

OBSERVATIONS

Heart
Kidney
Liver
Note: MIXED CL FOCUS TGLs = 1-3.1
Lung
Prostate

Testes

Thymus

Alveolar Epith

Interstit Cell
Interstit Cell
Epithel Cell

Cardiomyopathy
Nephropathy
Mixed Cell Focus

Hyperplasia
Inflammation
Vacuolization Cytoplasmic
Adenoma
Hyperplasia
Hyperplasia

Minimal
Mild
Mild

Focal, Minimal
Chronic Active, Mild
Focal, Mild

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 145

TRT#: 3

SEX: Male

DAY ON TEST: 359

DOSE: 0.003

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Spleen
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Trachea

OBSERVATIONS

Kidney
Liver
Lymph Node

Nose
Zymbal's Gland
Note: CARCINOMA TGLs = 1-10.1

Mediastinal
Mandibular

Nephropathy
Inflammation
Hemorrhage
Hyperplasia
Inflammation
Carcinoma

Mild
Granulomatous, Multifocal, Minimal
Mild
Plasma Cell, Mild
Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 146

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus

Mild
Mild
Minimal
Cystic, Minimal
Mild

Note: MIXED CL FOCUS TGLs = 2-3.1
[Basophilic Focus TGLS = 2-3.1]

Lymph Node
Nose

Mandibular, Sinus

Ectasia
Foreign Body
Inflammation
Adenoma

Mild
Mild
Suppurative, Minimal

Preputial Gland

Note: ADENOMA TGLs = 1-8.2

Prostate
Testes

Interstit Cell
Interstit Cell

Inflammation
Adenoma
Hyperplasia

Suppurative, Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 147

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Minimal
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
Nose		Inflammation	Acute, Minimal
Prostate		Inflammation	Chronic Active, Moderate
Skin		Squamous Cell Carcinoma	
Note: [SQUAM CEL CARC] TGLs = 1-13			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 148

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 2-3.1			
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 1-13			
Nose		Hemorrhage	Mild
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 149

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	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	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney		Hydronephrosis	Mild
		Nephropathy	Mild
Note: HYDRONEPHROSIS TGLs = 4-5			
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 3-3.1			
Lymph Node	Mediastinal	Hemorrhage	Mild
Nose		Hemorrhage	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
		Hypospermia	Mild
Note: ADENOMA TGLs = 2-8.1			
Note: HYOSPERMIA TGLs = 1-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 150

TRT#: 3

SEX: Male

DAY ON TEST: 391

DOSE: 0.003

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Liver		Fatty Change	Multifocal, Minimal
	Centrilobular	Necrosis	Coagulative, Minimal
Note: NECROSIS TGLs = 8-3.1 [Fatty Change TGLS = 8-3.1]			
Lung		Squamous Cell Carcinoma	Metastatic (Skin)
[Squamous Cell Carcinoma TGLS = 6,7-4+4.1]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Squamous Cell Carcinoma	Metastatic (Skin)
Note: HEMORRHAGE TGLs = 5-15 [Hemorrhage TGLS = 5-15]			
Skin		Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1,2-13+14			
Spleen		Depletion Lymphoid	Mild
Note: DEPLET LYMPH TGLs = 3-3			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Intestine Large - Rectum

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 2-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Prostate		Inflammation	Chronic Active, Moderate
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 152

TRT#: 3

SEX: Male

DAY ON TEST: 250

DOSE: 0.003

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Lung	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Mammary Gland	Seminal Vesicle
---------------	-----------------

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Thyroid Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 8-1]			
Epididymis		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Cyst	
		Leukemia Mononuclear	
Note: CYST	TGLs = 4,5-5		
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3.1		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-9		
Nose		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2,3-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 152

TRT#: 3
DOSE: 0.003

SEX: Male
DISP: Dead

DAY ON TEST: 250
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Leukemia Mononuclear	
	Glandular	Ulcer	Multifocal, Mild
Note: ULCER	TGLs = 9-6		
Testes		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 153

TRT#: 3

SEX: Male

DAY ON TEST: 419

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 1-8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 154

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 155

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Mild
		Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 6-3.1		
Note: IATROGENIC HEPATIC NECROSIS.	[Necrosis TGLS = 7-3.1]		
Lung		Infiltration Cellular	Histiocyte, Minimal
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN	TGLs = 1,2-13+14		
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3,4-8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 156

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Preputial Gland
Spleen
Thymus
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Salivary Glands
Stomach - Forestomach
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Seminal Vesicle
Stomach - Glandular
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Lung

Lymph Node
Nose
Pituitary Gland
[Adenoma TGLS = 1-2]
Prostate

Alveolar Epith

Mandibular

Pars Distalis

Cardiomyopathy
Nephropathy
Inflammation
Mixed Cell Focus
Hyperplasia
Infiltration Cellular
Hyperplasia
Hemorrhage
Adenoma

Inflammation

Minimal
Mild
Granulomatous, Multifocal, Minimal
Mild
Multifocal, Mild
Histiocyte, Minimal
Plasma Cell, Moderate
Mild

Chronic Active, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 157 TRT#: 3 SEX: Male DAY ON TEST: 420
DOSE: 0.003 DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Minimal
Note: DEGEN TGLs = 4-3.1			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-8.2			
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 2,3-13+14			
Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 158

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Mixed Cell Focus

Mild
Cystic, Minimal
Mild

[Mixed Cell Focus TGLS = 3-3.1]

Prostate
Skin

Inflammation
Basal Cell Adenoma

Chronic Active, Mild

Note: [BASAL CEL ADEN] TGLs = 2-13

Testes

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 159

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Mild
<p>Note: DEGEN TGLs = 1-3.1 [Degeneration TGLS = 1-3.1]</p>			
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 160

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Stomach - Glandular

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Skin
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Mixed Cell Focus

Mild
Mild
Minimal
Minimal

Lung
Lymph Node
Testes

Alveolar Epith
Mediastinal
Interstit Cell
Interstit Cell
Epithel Cell

Hyperplasia
Hyperplasia
Adenoma
Hyperplasia
Hyperplasia
Adenoma

Focal, Mild
Lymphoid, Moderate

Mild
Mild

Note: [ADENOMA] TGLs = 1-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 161

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Minimal
Note: MIXED CL FOCUS TGLs = 3,4,5-3.1 [Mixed Cell Focus TGLS = 3,4,5-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 2-13			
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 162

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus

Mild
Minimal
Cystic, Minimal
Minimal

[Basophilic Focus TGLS = 1-3.1]

[Mixed Cell Focus TGLS = 1-3.1]

Mesentery
Prostate
Testes

Thymus

Artery

Bilateral, Interstit Cell
Interstit Cell
Epithel Cell

Inflammation
Inflammation
Adenoma
Hyperplasia
Hyperplasia

Chronic, Marked
Chronic Active, Moderate

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 163

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus

Mild
Mild
Cystic, Mild
Mild

Note: DEGEN TGLs = 1-3.1
[Mixed Cell Focus TGLS = 1-3.1]

Prostate
Testes

Interstitial Cell
Interstitial Cell

Inflammation
Adenoma
Hyperplasia

Chronic Active, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 164

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Minimal
Note: MIXED CL FOCUS TGLs = 2-3.1			
Lymph Node	Mediastinal	Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 3-9			
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	
Note: [BASAL CEL ADEN] TGLs = 1-13			
Testes	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 165

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Pancreas
Seminal Vesicle
Stomach - Glandular
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thyroid Gland

MISSING

Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Inflammation
Hyperplasia
Adenoma

Mild
Mild
Cystic, Minimal
Granulomatous, Multifocal, Minimal
Plasma Cell, Moderate

Lymph Node
Pituitary Gland
[Adenoma TGLS = 1-2]
Prostate
Testes

Mandibular
Pars Distalis

Interstit Cell

Inflammation
Hyperplasia

Chronic Active, Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 166

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Mixed Cell Focus

Minimal
Mild
Mild
Mild

Note: MIXED CL FOCUS TGLs = 1-3.1

Prostate
Testes

Interstitial Cell

Inflammation
Hyperplasia

Chronic Active, Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 167

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Mixed Cell Focus
Hyperplasia
Inflammation
Basal Cell Adenoma

Mild
Minimal
Minimal
Focal, Mild
Chronic Active, Mild

Lung
Prostate
Skin

Alveolar Epith

Note: BASAL CEL ADEN TGLs = 1-13
Testes

Bilateral, Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 168	TRT#: 3	SEX: Male	DAY ON TEST: 420
	DOSE: 0.003	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 169

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Stomach - Glandular
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Mixed Cell Focus
Ectasia
Inflammation
Hyperplasia
Adenoma

Mild
Mild
Minimal
Minimal
Moderate
Chronic Active, Mild
Mild

Preputial Gland
Prostate
Testes
Thyroid Gland

Duct
Interstit Cell
Follicular Cel

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 170

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Preputial Gland
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Prostate
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Intestine Large
Kidney
Liver

Rectum

Parasite Metazoan
Nephropathy
Mixed Cell Focus

Minimal
Mild
Mild

[Mixed Cell Focus TGLS = 2-3.1]

Nose

Fungus
Inflammation
Hyperplasia

Moderate
Suppurative, Mild
Mild

Testes

Interstit Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 171

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Minimal
		Necrosis	Focal, Marked
Note: IATROGENIC HEPATIC NECROSIS.			
Note: DEGEN TGLs = 7-3.1			
[Necrosis TGLS = 6-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 3-13			
Prostate		Inflammation	Chronic Active, Moderate
Skin		Basal Cell Adenoma	
		Keratoacanthoma	
Note: BASAL CEL ADEN TGLs = 4,5-14+15			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-8			
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 172	TRT#: 3	SEX: Male	DAY ON TEST: 420
	DOSE: 0.003	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
	[Mixed Cell Focus TGLS = 1-3.1]		
Testes	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 173

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Minimal
Nose		Hemorrhage	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Thymus	Epithel Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 174

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Mild
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 1-3.1 [Mixed Cell Focus TGLS = 2-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Note: HYPERPLASIA TGLs = 3-4			
Prostate		Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 175

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 3-3.1 [Mixed Cell Focus TGLS = 3-3.1]			
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 1-13			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 176

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
Note: BASOPH FOCUS TGLs = 3-3.1 [Basophilic Focus TGLS = 3-3.1]			
Preputial Gland		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 1-8.2			
Skin		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 2-13			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 177

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Mild
[Degeneration TGLS = 2-3.1]			
[Mixed Cell Focus TGLS = 1,2-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 178

TRT#: 3
DOSE: 0.003

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 421
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Skin
Thymus
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Liver

Lung
Note: HYPERPLASIA TGLs = 3-4
Testes
Note: ADENOMA TGLs = 1,2-8

Alveolar Epith

Bilateral, Interstit Cell
Interstit Cell

Nephropathy
Basophilic Focus
Inflammation
Mixed Cell Focus
Hyperplasia

Adenoma
Hyperplasia

Mild
Minimal
Granulomatous, Multifocal, Minimal
Mild
Focal, Moderate

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 179

TRT#: 3

SEX: Male

DAY ON TEST: 405

DOSE: 0.003

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Bone Marrow

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	Mild
	[Hematopoietic Cell Proliferation TGLs = 4-3.1]		
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA	TGLs = 5,6-4+4.1		
Lymph Node	Mediastinal	Hemorrhage	Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 2-8.3		
Testes	Interstit Cell	Adenoma	
		Hypospermia	Minimal
Note: HYOSPERMIA	TGLs = 3-8+8.1		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 180

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Skin
Thymus
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Mixed Cell Focus
Hyperplasia

Minimal
Mild
Mild
Focal, Mild

Lung
Note: HYPERPLASIA TGLs = 1-4

Alveolar Epith

Cyst
Adenoma
Inflammation
Adenoma
Hyperplasia
Hypospermia

Chronic Active, Mild
Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 181

TRT#: 3

SEX: Male

DAY ON TEST: 426

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 4,5-3.1 [Basophilic Focus TGLS = 4,5-3.1]			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 3-8.4			
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 1,2-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 182

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-2]			
Kidney		Nephropathy	Minimal
Liver		Degeneration	Cystic, Minimal
		Fatty Change	Focal, Minimal
		Hematopoietic Cell Proliferation	Minimal
Note: DEGEN	TGLs = 2-3.2		
Pancreas	Acinus	Atrophy	Minimal
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 1-13		
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 183

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
Note: ANOM HEPAT LOB TGLs = 2-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Pancreas	Acinus	Atrophy	Mild
Prostate		Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 1-13			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 184

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Preputial Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Mixed Cell Focus
Necrosis

Mild
Cystic, Minimal
Minimal
Focal, Marked

Note: IATROGENIC HEPATIC NECROSIS.
[Necrosis TGLS = 4-3.1]

Nose
Prostate

Hemorrhage
Hyperplasia
Inflammation
Basal Cell Adenoma

Mild
Focal, Mild
Chronic Active, Mild

Skin

Note: BASAL CEL ADEN TGLs = 1-13

Testes

Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Mild

Note: ADENOMA TGLs = 2,3-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 185

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Intestine Large	Cecum	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 3-3.1]			
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 1-13			
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Mild
Preputial Gland	Duct	Ectasia	Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
Tooth		Dysplasia	Moderate
Note: DYSPLASIA TGLs = 2-14			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 231

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Trachea

MISSING

Mammary Gland

Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Mixed Cell Focus
Neoplastic Nodule

Mild
Cystic, Mild
Moderate

[Degeneration TGLS = 6,7-3.1]
[Mixed Cell Focus TGLS = 5-3.1]
[Neoplastic Nodule TGLS = 8-3.2]

Lung
Preputial Gland

Duct

Infiltration Cellular
Ectasia

Histiocyte, Minimal
Mild

Note: ECTASIA TGLs = 1-8.2

Skin

Basal Cell Adenoma

Multiple

Note: BASAL CEL ADEN TGLs = 2,3,4-13+14+15

Testes

Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 232

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD TGLs = 4-3.1+3.2 [Degeneration TGLS = 3-3.1+3.2]			
Skin		Basal Cell Adenoma	Multiple
		Keratoacanthoma	
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-14			
Note: BASAL CEL ADEN TGLs = 6,8,9,10-13+15+16			
Note: [KERATOACANTHMA] TGLs = 11-17			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 233

TRT#: 5

SEX: Male

DAY ON TEST: 343

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Marked
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
Note: [BASOPH FOCUS] TGLs = 1-3.1			
Note: DEGEN TGLs = 1-			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Lymph Node	Mandibular, Sinus	Ectasia	Moderate
	Mandibular	Hyperplasia	Plasma Cell, Mild
Note: ECTASIA TGLs = 3-9			
Note: HYPERPLASIA TGLs = 3-9			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-2]			
Preputial Gland		Hyperplasia	Focal, Mild
Prostate		Inflammation	Acute, Minimal
Stomach	Glandular	Ectopic Tissue	
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 234

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Mammary Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Moderate
		Neoplastic Nodule	Multiple
Note: MIXED CL FOCUS TGLs = 9-3.1+3.2			
Note: NEOPLASTIC NOD TGLs = 11-3.1+3.2			
Note: DEGEN TGLs = 12-3.1+3.2			
Preputial Gland	Duct	Ectasia	Mild
		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 6-8.2			
Note: ECTASIA TGLs = 7-8.2			
Seminal Vesicle		Atrophy	Moderate
Note: ATROPHY TGLs = 5-8.3			
Skin		Basal Cell Adenoma	Multiple
Note: [BASAL CEL ADEN] TGLs = 1,2,3-13+14+15			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 8-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 234

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 419
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes
Note: HYOSPERMIA TGLs = 4-8+8.1

Hyospermia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 235

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Moderate
<p>Note: [HEPATOCLR CARC] TGLs = 6,7-3.1+3.2 [Basophilic Focus TGLS = 5-3.1+3.2] [Eosinophilic Focus TGLS = 4-3.1+3.2] [Mixed Cell Focus TGLS = 4-3.1+3.2]</p>			
Lung		Alveolar/Bronchiolar Adenoma	
<p>Note: [ALV BRON ADEN] TGLs = 9-4+4.1</p>			
Mesentery	Fat	Necrosis	Focal, Moderate
<p>Note: NECROSIS TGLs = 1-13</p>			
Skin		Basal Cell Adenoma	
	Subcut Tiss	Schwannoma Benign	
<p>Note: BASAL CEL ADEN TGLs = 3-15 Note: [SCHWANNOMA BGN] TGLs = 2-14</p>			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 235

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 419
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland Note: CARCINOMA	TGLs = 8,10-10+10.1	Interstit Cell Bilateral	Hyperplasia Carcinoma	Mild
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 236

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Mammary Gland

OBSERVATIONS

Epididymis Note: MESOTHELIO MAL TGLs = 3-8+8.1		Mesothelioma Malignant	Metastatic (Testes)
Kidney Note: NEPHROPATHY TGLs = 4-5		Nephropathy	Mild
Liver Note: IATROGENIC HEPATIC NECROSIS. [Degeneration TGLS = 6-3.1] [Necrosis TGLS = 7-3.1]		Basophilic Focus Degeneration Eosinophilic Focus Mixed Cell Focus Necrosis	Marked Cystic, Mild Mild Mild Focal, Marked
Lymph Node Note: HEMORRHAGE TGLs = 8-13	Mediastinal	Hemorrhage	Mild
Pancreas	Acinus	Atrophy Carcinoma	Mild
Preputial Gland Note: CARCINOMA TGLs = 1-8.4			
Spleen Note: CONGESTION TGLs = 5-3		Congestion	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 236

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 419
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Hyperplasia Mesothelioma Malignant	Mild
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Note: MESOTHELIO MAL TGLs = 2-8+8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 237

TRT#: 5

SEX: Male

DAY ON TEST: 285

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Epididymis
Esophagus	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	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 5-7		
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Mild
Note: ANOM HEPAT LOB	TGLs = 2-3.1		
Note: MIXED CL FOCUS	TGLs = 3,4-3.1+3.2		
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Hair Follicle	Hyperplasia	Basal Cell, Focal, Minimal
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 238

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	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
Pancreas	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Moderate
Note: HEPATOCLR CARC TGLs = 9-3.2 [Eosinophilic Focus TGLS = 7,8-3.1+3.2] [Hepatocellular Carcinoma TGLS = 6-3.1+3.2] [Mixed Cell Focus TGLS = 6-3.1+3.2]			
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Note: [HYPERPLASIA] TGLs = 11-4			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-2]			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin		Basal Cell Adenoma	Multiple
	Hair Follicle	Hyperplasia	Basal Cell, Focal, Minimal
Note: BASAL CEL ADEN TGLs = 1,2,3,4-13+14+15			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 239

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Kidney	Nephropathy	Mild
Liver	Basophilic Focus	Marked
	Degeneration	Cystic, Moderate
	Eosinophilic Focus	Moderate
	Hepatocellular Carcinoma	
	Lymphoma Malignant Undifferentiated Cell Type	
	Mixed Cell Focus	Mild

Note: [BASOPH FOCUS] TGLs = 3,5-3.1+3.2

Note: DEGEN TGLs = 2,3-3.1+3.2

Note: HYPERPLASIA TGLs = 3,5-3.1+3.2

[Degeneration TGLS = 4-3.1]

Lung	Alveolar/Bronchiolar Adenoma	
	Hyperplasia	Multifocal, Mild
Preputial Gland	Inflammation	Chronic Active, Minimal
Prostate	Inflammation	Chronic Active, Moderate
Skin	Basal Cell Adenoma	Multiple
	Hyperplasia	Focal, Minimal
	Sebaceous Gl	
Note: BASAL CEL ADEN	TGLs = 6,7-13+14	
Spleen	Hematopoietic Cell Proliferation	Moderate
Testes	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 240

TRT#: 5

SEX: Male

DAY ON TEST: 404

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	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 - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Brain		Carcinoma	Metastatic (Zymbal'S Gland)
[Carcinoma TGLS = 8-1]			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
		Neoplastic Nodule	
Note: DEGEN TGLs = 1,2-3.1			
Note: NEOPLASTIC NOD TGLs = 3-3.1			
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA TGLs = 6,7-4+4.1			
Lymph Node	Mandibular	Hemorrhage	Mild
	Mediastinal	Hemorrhage	Moderate
	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HEMORRHAGE TGLs = 4-9			
Note: HYPERPLASIA TGLs = 4-9			
Note: HEMORRHAGE TGLs = 5-9			
Prostate		Inflammation	Chronic Active, Mild
Salivary Glands	Acinus	Atrophy	Mild
Seminal Vesicle		Atrophy	Mild
Skin		Basal Cell Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 240

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Moribund

DAY ON TEST: 404
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL ADEN	TGLs = 10,11-13+14		
Stomach	Forestomach	Hyperplasia	Moderate
	Forestomach	Ulcer	Marked
Testes	Interstit Cell	Adenoma	
Zymbal's Gland		Carcinoma	

Note: CARCINOMA TGLs = 9-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 241

TRT#: 5

SEX: Male

DAY ON TEST: 426

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 10-7.1			
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 13,14-3.1			
[Degeneration TGLS = 15-3.1]			
[Eosinophilic Focus TGLS = 12-3.1]			
[Mixed Cell Focus TGLS = 12-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 8-8.2			
Note: ADENOMA TGLs = 8-8.2			
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
		Basal Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 241	TRT#: 5 DOSE: 0.007	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 426 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Sebacous GI	Hyperplasia Squamous Cell Papilloma	Focal, Minimal
Note: BASAL CEL CARC TGLs = 1-13 Note: SQ CL PAPILLOM TGLs = 7-18 Note: BASAL CEL ADEN TGLs = 2,4,6-14+16+10.1		
Spleen [Hematopoietic Cell Proliferation TGLS = 9-3]	Hematopoietic Cell Proliferation	Marked
Testes Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 242

TRT#: 5

SEX: Male

DAY ON TEST: 426

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: DEGEN	TGLs = 7,8-3.1		
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
Pharynx		Squamous Cell Papilloma	
Note: SQ CL PAPILLOM	TGLs = 10-12.1		
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 2-8.3		
Skin	Sebaceous GI	Adenoma	Multiple
		Basal Cell Adenoma	Multiple
		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 3-13		
Note: BASAL CEL ADEN	TGLs = 4,5,6-14+15+16		
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 242

TRT#: 5

SEX: Male

DAY ON TEST: 426

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1-8

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 9-10+10.1+10.5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 243

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Salivary Glands
Stomach - Glandular

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Spleen
Trachea

MISSING

Thymus

OBSERVATIONS

Intestine Large
Kidney
Liver

Cecum

Parasite Metazoan
Nephropathy
Degeneration
Hepatocellular Carcinoma
Neoplastic Nodule

Minimal
Mild
Cystic, Mild

Note: NEOPLASTIC NOD TGLs = 1-3.1
Note: [HEPATOCLR CARC] TGLs = 3-3.1
[Degeneration TGLS = 2-3.1]

Lymph Node
Pancreas
Skin

Mandibular
Acinus

Hyperplasia
Atrophy
Squamous Cell Carcinoma

Plasma Cell, Moderate
Minimal

Note: SQUAM CEL CARC TGLs = 4-13

Testes
Zymbal's Gland

Interstit Cell

Adenoma
Carcinoma

Note: CARCINOMA TGLs = 5-10+10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 244

TRT#: 5

SEX: Male

DAY ON TEST: 393

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Necrosis	Focal, Marked
		Neoplastic Nodule	

Note: IATROGENIC HEPATIC NECROSIS.

[Degeneration TGLS = 7-3.1]

[Necrosis TGLS = 6-3.1]

[Neoplastic Nodule TGLS = 5-3.1]

Lung	Interstitialium	Inflammation	Minimal
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 3-14		
Prostate		Inflammation	Subacute, Minimal
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 2-13		
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-8.1		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-10-10.1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 244

TRT#: 5

SEX: Male

DAY ON TEST: 393

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 245

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Spleen
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus
Neoplastic Nodule

Minimal
Mild
Mild
Cystic, Moderate
Mild

Note: DEGEN TGLs = 3,4-3.1

Lung
Prostate
Skin

Infiltration Cellular
Inflammation
Squamous Cell Carcinoma

Histiocyte, Minimal
Chronic Active, Mild

Note: SQUAM CEL CARC TGLs = 1-13

Testes

Interstit Cell
Interstit Cell
Epithel Cell

Adenoma
Hyperplasia
Hyperplasia
Carcinoma

Mild
Mild

Thymus
Zymbal's Gland

Note: CARCINOMA TGLs = 2-10+10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 246

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Stomach - Forestomach
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Testes
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thymus
Zymbal's Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Eosinophilic Focus
Hepatodiaphragmatic Nodule
Infarct
Mixed Cell Focus
Neoplastic Nodule

Mild
Cystic, Moderate
Moderate
Marked
Moderate

Note: INFARCT TGLs = 6-3.1
Note: NEOPLASTIC NOD TGLs = 6,8-3.1+3.2+3.3
Note: MIXED CL FOCUS TGLs = 3-3.1+3.2+3.3
Note: DEGEN TGLs = 4,5,7-3.1+3.2+3.3
Note: INFARCTED ACCESSORY LOBE.
[Mixed Cell Focus TGLs = 3-3.1+3.2+3.3]

Lung
Pituitary Gland
Prostate
Skin

Alveolar Epith
Pars Distalis

Hyperplasia
Hyperplasia
Inflammation
Basal Cell Adenoma

Focal, Mild
Focal, Mild
Chronic Active, Mild
Multiple

Note: BASAL CEL ADEN TGLs = 1,2-13+14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 247

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Moderate
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Moderate
		Necrosis	Focal, Marked
<p>Note: [BASOPH FOCUS] TGLs = 6-3.1 Note: IATROGENIC HEPATIC NECROSIS. Note: DEGEN TGLs = 4,5-3.1</p>			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Nose		Hemorrhage	Mild
Prostate		Hyperplasia	Multifocal, Minimal
		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
	Sebaceous Gl	Hyperplasia	Focal, Moderate
		Keratoacanthoma	
		Squamous Cell Papilloma	
<p>Note: SQ CL PAPILOM TGLs = 2-14</p>			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 247

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 7-16

Note: BASAL CEL ADEN TGLs = 1,3-13+15

Testes

Interstit Cell

Adenoma

Zymbal's Gland

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 248

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Moderate
		Neoplastic Nodule	Multiple
<p>Note: NEOPLASTIC NOD TGLs = 7,8,9,10-3.1+3.2 [Basophilic Focus TGLS = 5,6-3.1+3.2] [Eosinophilic Focus TGLS = 4-3.1+3.2] [Mixed Cell Focus TGLS = 4-3.1+3.2]</p>			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Nose		Fungus	Moderate
		Inflammation	Suppurative, Mild
Preputial Gland	Duct	Ectasia	Moderate
<p>Note: ECTASIA TGLs = 1-8.2</p>			
Skin		Basal Cell Adenoma	Multiple
<p>Note: BASAL CEL ADEN TGLs = 2,3-13+14</p>			
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 248

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 419
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia
Mesothelioma Malignant

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 249

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: DEGEN TGLs = 4-3.1			
Note: NEOPLASTIC NOD TGLs = 4,6-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Lymph Node	Mediastinal, Sinus	Infiltration Cellular	Histiocyte, Mild
Note: INFILTRAT CELL TGLs = 7-15			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 1,2-13+14			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 250

TRT#: 5

SEX: Male

DAY ON TEST: 425

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
Note: THROMBUS	TGLs = 8-3		
Intestine Small	Duodenum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 10-6.1		
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Moderate
		Hematopoietic Cell Proliferation	Minimal
		Neoplastic Nodule	Multiple
Note: DEGEN	TGLs = 6,7-3.1		
Note: NEOPLASTIC NOD	TGLs = 6,7-3.1		
Lung		Embolus	Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
Skin		Basal Cell Adenoma	Multiple
Note: [BASAL CEL ADEN]	TGLs = 1,2,3,4-13+14+15+16		
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-8+8.1		
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 251

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Hepatocellular Carcinoma
Mixed Cell Focus
Neoplastic Nodule

Mild
Mild
Cystic, Mild
Mild
Mild

[Degeneration TGLS = 4-3.1]
[Hepatocellular Carcinoma TGLS = 3-3.1]

Prostate
Testes

Bilateral, Interstit Cell

Inflammation
Adenoma
Hypospermia

Chronic Active, Mild
Mild

Note: ADENOMA TGLs = 2-8+8.1
Note: HYOSPERMIA TGLs = 1-8

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 252

TRT#: 5

SEX: Male

DAY ON TEST: 285

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Testes
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus

Esophagus
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Bone Marrow
Epididymis
Heart
Kidney
Liver

Hyperplasia
Inflammation
Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Hematopoietic Cell Proliferation
Infarct
Mixed Cell Focus

Moderate
Chronic, Mild
Mild
Minimal
Mild
Mild
Minimal
Marked
Minimal

Note: MIXED CL FOCUS TGLs = 5-3.1

Note: INFARCT TGLs = 2-3.2

Prostate
Spleen

Inflammation
Hematopoietic Cell Proliferation

Chronic Active, Minimal
Moderate

Note: HEMA CELL PROL TGLs = 1-3

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 4-10.1

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 253

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Moderate
Note: DEGEN TGLs = 2-3.1+3.2+3.3			
Note: [BASOPH FOCUS] TGLs = 3,4-3.2+3.3			
Skin		Basal Cell Adenoma	Multiple
	Sebaceous Gl	Hyperplasia	Focal, Mild
		Keratoacanthoma	
		Squamous Cell Carcinoma	Multiple
Note: KERATOACANTHMA TGLs = 6-15			
Note: BASAL CEL ADEN TGLs = 7,8-16+17			
Note: SQUAM CEL CARC TGLs = 1,5-13+14			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 254

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Lipoma	
		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: DEGEN TGLs = 5-3.1 Note: MIXED CL FOCUS TGLs = 7-3.1 [Hematopoietic Cell Proliferation TGLS = 6-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 9-15			
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 1,2-13+14			
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 4-3			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 254

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 420
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Epithel Cell	Hyperplasia	Mild
Thyroid Gland	Follicle	Cyst	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 255

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Trachea

MISSING

Mammary Gland

Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Mixed Cell Focus

Mild
Mild
Cystic, Moderate
Mild
Moderate

Note: [BASOPH FOCUS] TGLs = 3,4,5-3.1+3.2
[Degeneration TGLS = 3,4-3.1+3.2]
[Eosinophilic Focus TGLS = 2-3.1+3.2]
[Mixed Cell Focus TGLS = 2-3.1+3.2]

Lung
Prostate
Skin

Alveolar Epith

Hyperplasia
Inflammation
Basal Cell Adenoma

Focal, Mild
Chronic Active, Mild

Note: BASAL CEL ADEN TGLs = 2-13

Testes

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 256

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Mammary Gland

OBSERVATIONS

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Liver	Basophilic Focus	Mild
	Degeneration	Cystic, Mild
	Mixed Cell Focus	Moderate
	Neoplastic Nodule	

Note: MIXED CL FOCUS TGLs = 5-3.1

Note: [NEOPLASTIC NOD] TGLs = 6-3.1

[Mixed Cell Focus TGLS = 4-3.1]

Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Nose		Foreign Body	Minimal
Skin		Basal Cell Adenoma	Multiple

Note: [BASAL CEL ADEN] TGLs = 1,2-13+14

Testes	Interstit Cell	Hyperplasia	Mild
--------	----------------	-------------	------

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 257

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Testes
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Degeneration
Eosinophilic Focus
Hematopoietic Cell Proliferation
Mixed Cell Focus

Minimal
Mild
Cystic, Mild
Mild
Minimal
Moderate

Note: MIXED CL FOCUS TGLs = 3,4-3.1
[Mixed Cell Focus TGLS = 4,5-3.1]

Lung

Alveolar Epith

Hyperplasia
Infiltration Cellular
Atrophy
Inflammation
Squamous Cell Carcinoma

Focal, Minimal
Histiocyte, Minimal
Minimal
Chronic Active, Mild

Pancreas
Prostate
Skin

Acinus

Note: SQUAM CEL CARC TGLs = 2-13

Zymbal's Gland

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 258

TRT#: 5

SEX: Male

DAY ON TEST: 372

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Salivary Glands
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Preputial Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Eosinophilic Focus
Infarct

Mild
Cystic, Mild
Mild
Marked

Caudate Lobe

Note: EOSIN FOCUS TGLs = 6-3.1

Note: CAUDATE LOBE LESION COMPATIBLE WITH TORSION.

Note: INFARCT TGLs = 3-3.2

[Eosinophilic Focus TGLs = 6-3.1]

Lung

Carcinoma
Infiltration Cellular
Ectasia
Hyperplasia

Metastatic (Zymbal'S Gland)
Histiocyte, Minimal
Mild
Plasma Cell, Moderate

Lymph Node

Mesenteric, Sinus
Mandibular

Note: HYPERPLASIA TGLs = 2-9

Skin

Note: BASAL CEL ADEN TGLs = 4,5-10.2

Basal Cell Adenoma

Multiple

Spleen

Hematopoietic Cell Proliferation

Moderate

Testes

Interstit Cell

Hyperplasia

Mild

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 259

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
Note: DEGEN	TGLs = 5-3.1		
Lymph Node		Hyperplasia	Plasma Cell, Mild
Prostate	Mandibular	Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Moderate
Note: ATROPHY	TGLs = 4-8.3		
Skin	Sebaceous GI	Adenoma	
		Basal Cell Adenoma	
		Squamous Cell Carcinoma	
Note: BASAL CEL ADEN	TGLs = 1,2-13+14		
Note: SQUAM CEL CARC	TGLs = 6-12+12.1+12.2		
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 260

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus

Mild
Mild
Cystic, Mild
Moderate

Note: DEGEN TGLs = 4-3.1
Note: [BASOPH FOCUS] TGLs = 4-3.1
[Mixed Cell Focus TGLS = 5-3.1]

Lung
Lymph Node
Preputial Gland
Skin

Alveolar Epith
Mandibular
Duct

Hyperplasia
Hyperplasia
Ectasia
Basal Cell Adenoma

Focal, Mild
Plasma Cell, Moderate
Moderate

Note: BASAL CEL ADEN TGLs = 1-13
Testes

Interstit Cell

Adenoma
Hypospermia

Mild

Note: ADENOMA TGLs = 3-8
Note: HYOSPERMIA TGLs = 2-8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 261

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	Mild
		Necrosis	Focal, Marked
Note: DEGEN TGLs = 5-3.1			
Note: IATROGENIC HEPATIC NECROSIS.			
Note: [BASOPH FOCUS] TGLs = 5,6,7-3.1			
Lung	Interstitium	Inflammation	Minimal
Preputial Gland	Duct	Ectasia	Moderate
Skin		Basal Cell Adenoma	Multiple
Note: [BASAL CEL ADEN] TGLs = 1,3-13+15			
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 4-3			
Testes	Interstit Cell	Hyperplasia	Mild
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 10-16			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 261

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 420
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland
Note: ADENOMA TGLs = 9-10

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 262

TRT#: 5

SEX: Male

DAY ON TEST: 391

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Salivary Glands
Testes

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Preputial Gland
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Hematopoietic Cell Proliferation

Mild
Mild
Cystic, Mild
Moderate
Minimal

[Eosinophilic Focus TGLs = 5-3.1]

Lung
Note: HYPERPLASIA TGLs = 2-4.1

Alveolar Epith

Hyperplasia

Focal, Mild

Lymph Node
Note: HYPERPLASIA TGLs = 1-13

Deep Cervical
Mandibular

Hyperplasia
Hyperplasia

Plasma Cell, Moderate
Plasma Cell, Mild

Skin
Note: BASAL CEL ADEN TGLs = 6,7-14+15

Basal Cell Adenoma

Multiple

Spleen
Note: HEMA CELL PROL TGLs = 4-3

Hematopoietic Cell Proliferation

Moderate

Zymbal's Gland
Note: CARCINOMA TGLs = 8-10+10.1+10.2

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 263

TRT#: 5

SEX: Male

DAY ON TEST: 379

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spleen
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Stomach - Forestomach

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Thyroid Gland

MISSING

Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Hematopoietic Cell Proliferation
Hepatocellular Carcinoma

Mild
Mild
Cystic, Minimal
Minimal

Note: HEPATOCLR CARC TGLs = 3-3.2

Note: DEGEN TGLs = 2-3.1

Prostate
Skin

Inflammation
Keratoacanthoma

Chronic Active, Mild
Multiple

Note: KERATOACANTHMA TGLs = 4,5-10.2+10.3

Stomach

Glandular

Degeneration

Cystic, Minimal

Testes

Interstit Cell

Hyperplasia

Mild

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 264

TRT#: 5

SEX: Male

DAY ON TEST: 285

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Spleen
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Salivary Glands
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Inflammation
Mixed Cell Focus
Hyperplasia
Inflammation
Carcinoma
Hyperplasia
Inflammation

Mild
Minimal
Mild
Mild
Granulomatous, Multifocal, Minimal
Mild
Plasma Cell, Moderate
Chronic Active, Mild
Glandular, Focal, Minimal
Acute, Minimal

Lymph Node
Preputial Gland
Zymbal's Gland

Mandibular

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 265

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Islets, Pancreatic
Nose
Preputial Gland
Spleen
Thyroid Gland

Epididymis
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Intestine Large
Kidney
Liver

Cortex

Rectum

Vacuolization Cytoplasmic
Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus
Necrosis

Focal, Minimal
Minimal
Mild
Mild
Mild
Cystic, Mild
Moderate
Focal, Marked

Note: IATROGENIC HEPATIC NECROSIS.
Note: MIXED CL FOCUS TGLs = 1,4-3.1
Note: [BASOPH FOCUS] TGLs = 1,2-3.1
Note: NECROSIS TGLs = 3-3.1
[Necrosis TGLS = 1-3.1]

Lung
Note: [ALV BRON ADEN] TGLs = 5,6-4+4.1
Skin
Note: BASAL CEL ADEN TGLs = 7,8-13+14
Testes

Interstit Cell

Alveolar/Bronchiolar Adenoma

Basal Cell Adenoma

Hyperplasia

Multiple

Multiple

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 266

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Degeneration
Hepatocellular Carcinoma
Mixed Cell Focus

Mild
Mild
Mild
Cystic, Mild
Moderate

Note: HEPATOCLR CARC TGLs = 10-3.1

Note: MIXED CL FOCUS TGLs = 7-3.1

[Hepatocellular Carcinoma TGLS = 8,9,11-3.1]

Lung
Prostate
Skin

Alveolar Epith

Hyperplasia
Inflammation
Basal Cell Adenoma
Basal Cell Carcinoma
Hyperplasia
Inflammation
Squamous Cell Papilloma

Multifocal, Mild
Chronic Active, Mild
Multiple
Focal, Moderate
Chronic Active, Marked

Note: BASAL CEL ADEN TGLs = 2,4-13+15

Note: INFLAMMATION TGLs = 5-16

Note: BASAL CEL CARC TGLs = 3-14

Note: SQ CL PAPILOM TGLs = 6-17

Note: HYPERPLASIA TGLs = 6-17

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 266	TRT#: 5 DOSE: 0.007	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 420 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
Note: ADENOMA Zymbal's Gland	TGLs = 1-8	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 267

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Nose
Preputial Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Mixed Cell Focus
Neoplastic Nodule

Mild
Mild
Cystic, Mild
Mild
Moderate
Multiple

Note: NEOPLASTIC NOD TGLs = 6,7-3.1
[Basophilic Focus TGLS = 6-3.1]
[Degeneration TGLS = 7-3.1]
[Eosinophilic Focus TGLS = 4,5-3.1]

Lung
Lymph Node
Prostate
Skin

Mandibular, Sinus
Mesenteric
Sebacaceous GI

Infiltration Cellular
Ectasia
Hemorrhage
Inflammation
Basal Cell Adenoma
Hyperplasia
Keratoacanthoma

Histiocyte, Minimal
Mild
Mild
Chronic Active, Mild
Multiple
Focal, Moderate

Note: BASAL CEL ADEN TGLs = 8,9,10-13+14+15
Note: BASAL CEL ADEN TGLs = 16-19

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 267

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 15-18

Note: BASAL CEL ADEN TGLs = 11,12,13,14-16+17+18

Testes Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1,2-8+8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 268

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT	TGLs = 9-7.1		
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: DEGEN	TGLs = 4-3.1		
Note: NEOPLASTIC NOD	TGLs = 4-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL	TGLs = 6-4+4.1		
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 2-13		
Preputial Gland	Duct	Adenoma	
		Ectasia	Moderate
Note: ADENOMA	TGLs = 1-8.2		
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 3-8.3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 268

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 420
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin
Note: BASAL CEL ADEN TGLs = 7-14
Spleen
Note: HEMA CELL PROL TGLs = 8-3

Basal Cell Adenoma
Hematopoietic Cell Proliferation
Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 269

TRT#: 5

SEX: Male

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Thymus
Zymbal's Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Eosinophilic Focus
Neoplastic Nodule

Mild
Cystic, Mild
Mild

Note: NEOPLASTIC NOD TGLs = 8-3.1
[Degeneration TGLS = 7-3.1]

Lung

Alveolar/Bronchiolar Adenoma
Infiltration Cellular
Basal Cell Adenoma
Squamous Cell Carcinoma

Histiocyte, Minimal
Multiple

Note: SQUAM CEL CARC TGLs = 4-15
Note: BASAL CEL ADEN TGLs = 2,3-13+14

Spleen

Hematopoietic Cell Proliferation

Marked

[Hematopoietic Cell Proliferation TGLS = 6-3]

Testes

Interstitial Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 270

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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 - Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Lymph Node - Mandibular	Mammary Gland	Salivary Glands
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild

Note: MIXED CL FOCUS TGLs = 4-3.1

Note: DEGEN TGLs = 3-3.1

Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Pancreas	Acinus	Atrophy	Mild
Skin		Basal Cell Adenoma	Multiple

Note: BASAL CEL ADEN TGLs = 1,2,5-13+14+15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 271 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 341
DOSE: 0.007 **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
	Atrium	Dilatation	Moderate
Kidney		Nephropathy	Mild
Liver		Congestion	Moderate
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
Note: CONGESTION TGLs = 2-3.1			
Lung		Congestion	Moderate
Note: CONGESTION TGLs = 1-4+4.1			
Lymph Node	Mediastinal	Hemorrhage	Moderate
Pharynx		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 3-13			
Prostate		Inflammation	Chronic Active, Moderate
Stomach	Forestomach	Erosion	Focal, Mild
Note: EROSION TGLs = 4-6			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 272

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Brain	Thalamus	Cyst	
Note: CYST TGLs = 4-1			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Mixed Cell Focus	Moderate
		Necrosis	Focal, Marked
Note: MIXED CL FOCUS TGLs = 2-3.1			
Note: IATROGENIC HEPATIC NECROSIS.			
[Necrosis TGLS = 1-3.1]			
Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 5-4		Hyperplasia	Multifocal, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 3-13			
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 273

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Testes	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 14-7.1			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Mild
		Neoplastic Nodule	Multiple
Note: DEGEN TGLs = 9-3.1			
Note: NEOPLASTIC NOD TGLs = 9,10,11-3.1			
Mesentery	Fat	Necrosis	Focal, Moderate
Pharynx		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 13-12.1			
Skin		Basal Cell Adenoma	Multiple
		Squamous Cell Carcinoma	
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 6-18			
Note: SQUAM CEL CARC TGLs = 5-17			
Note: BASAL CEL ADEN TGLs = 1,2,3,4-13+14+15+16			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 273

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 420
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus	Epithel Cell	Hyperplasia	Mild
Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 274

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
		Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 6-3.1			
Note: DEGEN TGLs = 4,5-3.1			
Note: IATROGENIC HEPATIC NECROSIS.			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Preputial Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8.2			
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 2,3-13+14			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 275

TRT#: 5

SEX: Male

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD	TGLs = 4,5-3.1		
Note: MIXED CL FOCUS	TGLs = 5-3.1		
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Reticulum Cell, Moderate
Note: HYPERPLASIA	TGLs = 6-9		
Note: HEMORRHAGE	TGLs = 6-9		
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	
Note: [BASAL CEL ADEN]	TGLs = 2-13		
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation	TGLS = 3-3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 275

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Moribund

DAY ON TEST: 406
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 276

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 11-7.1			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	Moderate
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD TGLs = 5,6-3.1			
Note: DEGEN TGLs = 5,6-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Preputial Gland		Carcinoma	
		Inflammation	Chronic Active, Mild
Note: CARCINOMA TGLs = 1-8.4			
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Moderate
Note: ATROPHY TGLs = 4-8.3			
Skin		Acanthosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 276

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 420
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Basal Cell Carcinoma
Keratoacanthoma
Squamous Cell Carcinoma

Note: ACANTHOSIS TGLs = 7-13
Note: KERATOACANTHMA TGLs = 9-15
Note: SQUAM CEL CARC TGLs = 8-14
Note: BASAL CEL CARC TGLs = 10-16

Testes Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Mild

Note: ADENOMA TGLs = 2,3-8

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:46

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 277

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Testes
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Hepatocellular Carcinoma
Mixed Cell Focus
Neoplastic Nodule

Minimal
Mild
Mild
Cystic, Mild
Mild
Multiple
Moderate
Multiple

Note: EOSIN FOCUS TGLs = 3-3.1+3.2+3.3
Note: NEOPLASTIC NOD TGLs = 5,6,7,10-3.1+3.2+3.3
Note: MIXED CL FOCUS TGLs = 3-3.1+3.2+3.3
Note: DEGEN TGLs = 8,9-3.1+3.2+3.3
Note: HEPATOCLR CARC TGLs = 4-3.1+3.2

Lung
Pituitary Gland

Alveolar Epith
Pars Distalis

Hyperplasia
Angiectasis
Hyperplasia

Multifocal, Moderate
Mild
Focal, Mild

Note: HYPERPLASIA TGLs = 2-2
Note: ANGIECTASIS TGLs = 2-2

Prostate
Skin

Inflammation
Basal Cell Adenoma

Chronic Active, Moderate

Note: BASAL CEL ADEN TGLs = 1-13

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 277

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 278

TRT#: 5

SEX: Male

DAY ON TEST: 355

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Esophagus
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	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Brain	Cerebrum	Hemorrhage	Multifocal, Moderate
	Cerebrum	Lymphoma Malignant Histiocytic Necrosis	Focal, Mild
[Hemorrhage TGLS = 11-1]			
Epididymis	Arteriole	Inflammation	Chronic, Mild
		Lymphoma Malignant Histiocytic	
Heart		Lymphoma Malignant Histiocytic	
Intestine Large	Cecum	Lymphoma Malignant Histiocytic	
Note: INTRAMUSCULAR ANAL GLAND ADENOMA.			
Kidney		Degeneration	Hyaline, Mild
		Lymphoma Malignant Histiocytic	
		Nephropathy	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant Histiocytic	
		Necrosis	Multifocal, Mild
Note: LYMPH MAL HIST	TGLs = 4,5,6,7-3.1+3.2+3.3		
Lung		Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST	TGLs = 8,9-4+4.1		
Lymph Node	Mediastinal	Lymphoma Malignant Histiocytic	
	Mesenteric	Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST	TGLs = 2,10-7+9+13		
Note: LYMPH MAL HIST	TGLs = 10-13		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 278

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Moribund

DAY ON TEST: 355
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas Note: LYMPH MAL HIST TGLs = 13-6.1	Lymphoma Malignant Histiocytic	
Skin Note: BASAL CEL ADEN TGLs = 12-14	Basal Cell Adenoma	
Spleen Note: HEMA CELL PROL TGLs = 14-3	Hematopoietic Cell Proliferation	Moderate
Testes	Hemorrhage Lymphoma Malignant Histiocytic	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:46
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 279

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Moderate
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Mild
Note: [BASOPH FOCUS] TGLs = 4-3.1 [Hepatocellular Carcinoma TGLS = 5-3.1]			
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 6-14			
Pancreas	Acinus	Atrophy	Minimal
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 1-13			
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-3]			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 280

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: [BASOPH FOCUS] TGLs = 5,6-3.1			
Note: DEGEN TGLs = 5,6-3.1			
Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Focal, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Sebaceous Gl	Adenoma	
		Keratoacanthoma	
Note: [KERATOACANTHMA] TGLs = 1,2-13+14			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 281

TRT#: 5

DOSE: 0.007

SEX: Male

DISP: Dead

DAY ON TEST: 378

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Epididymis
Esophagus	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	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thyroid Gland
Urinary Bladder			

OBSERVATIONS

Brain	Meninges	Sarcoma	
Note: [SARCOMA] TGLs = 3-13+13.1			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
Note: ATYPICAL BILE DUCTULE HYPERPLASIA.			
Note: DEGEN TGLs = 1-3.1			
Lung		Congestion	Moderate
	Alveolar Epith	Hyperplasia	Multifocal, Mild
Note: CONGESTION TGLs = 2-4+4.1			
Note: [HYPERPLASIA] TGLs = 4-4.1			
Lymph Node	Mesenteric	Hemorrhage	Moderate
Nose		Inflammation	Suppurative, Mild
Prostate		Inflammation	Chronic Active, Moderate
Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Mild
Thymus		Hemorrhage	Mild
Trachea		Inflammation	Suppurative, Mild
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 282

TRT#: 5

SEX: Male

DAY ON TEST: 420

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Lung
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

Brain
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spleen
Trachea

MISSING

Thymus

OBSERVATIONS

Heart
Intestine Small
 Note: ADENOCARC TGLs = 1-6.1
Kidney
Liver

Duodenum

Cardiomyopathy
Adenocarcinoma

Nephropathy
Degeneration
Eosinophilic Focus
Mixed Cell Focus
Neoplastic Nodule

Mild
Cystic, Mucinous

Mild
Cystic, Mild
Mild
Mild
Multiple

 Note: NEOPLASTIC NOD TGLs = 7,8,9-3.1
 Note: MIXED CL FOCUS TGLs = 6-3.1
 [Eosinophilic Focus TGLs = 8-3.1]
 [Mixed Cell Focus TGLs = 6-3.1]

Prostate
Skin

Hair Follicle

Inflammation
Basal Cell Adenoma
Hyperplasia

Chronic Active, Mild
Multiple
Basal Cell, Multifocal, Minimal

 Note: BASAL CEL ADEN TGLs = 2,3,4,5-13+14+15+16

Testes

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 283

TRT#: 5

SEX: Male

DAY ON TEST: 12

DOSE: 0.007

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Prostate
Spleen
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Preputial Gland
Skin
Testes
Urinary Bladder

MISSING

Mammary Gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 284

TRT#: 5

SEX: Male

DAY ON TEST: 229

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Pancreas	Acinus	Atrophy	Mild
Zymbal's Gland		Carcinoma	

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 285

TRT#: 5

SEX: Male

DAY ON TEST: 384

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 5-7.1			
Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Moderate
[Degeneration TGLs = 7,8,9-3.1+3.2]			
[Eosinophilic Focus TGLs = 6-3.1]			
[Mixed Cell Focus TGLs = 6-3.1]			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 3-14			
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 2-13			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLs = 4-3]			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 10-10+10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 286

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Thyroid Gland

OBSERVATIONS

Intestine Large
Kidney
Liver

Colon

Parasite Metazoan
Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Hematopoietic Cell Proliferation
Mixed Cell Focus

Minimal
Mild
Mild
Cystic, Mild
Mild
Minimal
Mild

Note: [BASOPH FOCUS] TGLs = 1,2-3.1

Note: DEGEN TGLs = 3-3.1

[Eosinophilic Focus TGLS = 1-3.1]

[Mixed Cell Focus TGLS = 1-3.1]

Lung

Alveolar Epith

Hyperplasia

Multifocal, Moderate

Note: HYPERPLASIA TGLs = 4-4+4.1

Skin

Basal Cell Adenoma

Note: BASAL CEL ADEN TGLs = 5-13

Spleen

Hematopoietic Cell Proliferation

Mild

Testes

Interstit Cell

Hyperplasia

Mild

Zymbal's Gland

Adenoma

Carcinoma

Note: CARCINOMA TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 287

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Nose
Prostate
Stomach - Forestomach
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Intestine Large
Kidney
Liver

Colon

Parasite Metazoan
Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Inflammation
Mixed Cell Focus

Minimal
Mild
Mild
Cystic, Mild
Mild
Granulomatous, Multifocal, Minimal
Mild

Note: [BASOPH FOCUS] TGLs = 2-3.1
[Degeneration TGLS = 2,3-3.1]

Lung
Lymph Node
Preputial Gland
Skin

Alveolar Epith
Mandibular

Hyperplasia
Hyperplasia
Inflammation
Squamous Cell Carcinoma

Multifocal, Moderate
Plasma Cell, Mild
Chronic Active, Mild

Note: SQUAM CEL CARC TGLs = 1-13

Testes

Interstit Cell

Hyperplasia
Hypospermia

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 288

TRT#: 5

SEX: Male

DAY ON TEST: 307

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
Note: THROMBUS	TGLs = 8-3		
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Fatty Change	Diffuse, Mild
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
	Centrilobular	Necrosis	Coagulative, Minimal
Note: NECROSIS	TGLs = 5,6-3.1		
Note: DEGEN	TGLs = 6-3.1		
Lung		Inflammation	Moderate
Note: INFLAMMATION	TGLs = 9-4+4.1		
Pituitary Gland		Cyst	
Preputial Gland		Atrophy	Moderate
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 10-10.1		
Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 288

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Moribund

DAY ON TEST: 307
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 3-3

Thymus	Epithel Cell	Hyperplasia	Mild
Zymbal's Gland	Bilateral	Hyperplasia	Glandular, Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 289

TRT#: 5

SEX: Male

DAY ON TEST: 405

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Minimal
Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD TGLs = 7,8,9-3.1+3.2			
Note: DEGEN TGLs = 7-3.1+3.2			
Salivary Glands		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 3-9			
Skin	Sebaceous GI	Adenoma	
		Basal Cell Adenoma	
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 11-14			
Note: BASAL CEL ADEN TGLs = 10,12-13+15			
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 2-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 289

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Moribund

DAY ON TEST: 405
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma
Note: ADENOMA TGLs = 1-8.1		
Zymbal's Gland		Carcinoma
Note: CARCINOMA TGLs = 5-10+10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 290

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
Note: DEGEN	TGLs = 2,3-3.1+3.2+3.3		
Note: [BASOPH FOCUS]	TGLs = 2,3,4,6-3.1+3.2		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA	TGLs = 1-9		
Spleen		Leukemia Mononuclear	
Tissue NOS		Inflammation	Chronic, Moderate
Note: TISSUE NOS = LARGE MEDIASTINAL ARTERY.			
Zymbal's Gland		Adenoma	
Note: ADENOMA	TGLs = 5-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 290

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 421
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 291

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Moderate
		Neoplastic Nodule	Multiple
Note: DEGEN	TGLs = 8,9-3.1		
Note: NEOPLASTIC NOD	TGLs = 8,9-3.1		
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Lymph Node	Mandibular	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 7-9		
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Mild
Note: INFLAMMATION	TGLs = 1-8.2		
Prostate		Inflammation	Chronic Active, Moderate
Skin		Basal Cell Adenoma	Multiple
	Hair Follicle	Hyperplasia	Basal Cell, Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 291

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL ADEN TGLs = 2,3,4-13+14+15

Note: BASAL CEL ADEN TGLs = 5,6-16+17

Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

Zymbal's Gland

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 292

TRT#: 5

SEX: Male

DAY ON TEST: 405

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Spleen
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Testes
Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Intest Large
Note: COLONIC INTUSSUSCEPTION. TGL 3-7.1.

Kidney
Liver
Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Neoplastic Nodule

Mild
Minimal
Cystic, Mild
Mild
Multiple

[Basophilic Focus TGLS = 6-3.1]
[Eosinophilic Focus TGLS = 6-3.1]

Lung
Note: FOREIGN BODY TGLs = 2-4+4.1
Foreign Body
Moderate

Skin
Note: [ADENOMA] TGLs = 1-13
Sebaceous GI
Adenoma

Zymbal's Gland
Adenoma

PRIMARY CAUSE OF DEATH

-

Animal Note: MULTIPLE ORGANS PARTIALLY AUTOLYZED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 293

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Epididymis		Mesothelioma Malignant	Metastatic (Testes)
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Moderate
		Necrosis	Focal, Marked

Note: NECROSIS TGLs = 8-3.1

Note: IATROGENIC HEPATIC NECROSIS.

[Mixed Cell Focus TGLS = 6,7-3.1]

[Necrosis TGLS = 6-3.1]

Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 9-2]		
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
		Squamous Cell Carcinoma	Multiple

Note: SQUAM CEL CARC TGLs = 1,2-13+14

Note: BASAL CEL ADEN TGLs = 3,4,5-15+16+17

Testes		Mesothelioma Malignant	
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 293

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 294

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Moderate
Note: MIXED CL FOCUS TGLs = 4-3.1			
Note: DEGEN TGLs = 4,5-3.1			
Note: [BASOPH FOCUS] TGLs = 5-3.1			
Lung		Alveolar/Bronchiolar Carcinoma	
		Hyperplasia	Focal, Minimal
Note: ALV BRON CARC TGLs = 6-3			
Skin		Adenoma	
		Basal Cell Adenoma	
		Cyst Epithelial Inclusion	
		Hyperplasia	Basal Cell, Focal, Minimal
Note: BASAL CEL ADEN TGLs = 1,2-13+14			
Note: CYST EPITH INC TGLs = 3-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 294

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 421
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 295

TRT#: 5

SEX: Male

DAY ON TEST: 384

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney		Cyst	
Note: CYST	TGLs = 4-5	Nephropathy	Mild
Liver		Degeneration	Cystic, Moderate
Note: EOSIN FOCUS	TGLs = 5-3.1	Eosinophilic Focus	Moderate
Note: MIXED CL FOCUS	TGLs = 5-3.1	Mixed Cell Focus	Moderate
Note: DEGEN	TGLs = 6,7,8-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA	TGLs = 10-15		
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN	TGLs = 2,3-13+14		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-10+10.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 296

TRT#: 5

SEX: Male

DAY ON TEST: 379

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Small	Ileum	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 4-6.1			
Note: INTUSSUSCEPTION TGL= 3-6.1.			
Note: SMALL INTESTINE INTUSSUSCEPTION, APPARENTLY AGONAL.			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Hematopoietic Cell Proliferation	Minimal
Note: DEGEN TGLs = 6-3.1			
Note: [BASOPH FOCUS] TGLs = 7,8-3.1+3.2			
Preputial Gland	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 2-8.2			
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 9,10-10.2+13			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Adenoma	
		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 296

TRT#: 5

SEX: Male

DAY ON TEST: 379

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 297

TRT#: 5

SEX: Male

DAY ON TEST: 295

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Hydronephrosis	Mild
		Nephropathy	Mild
Note: HYDRONEPHROSIS TGLs = 3-5			
Liver		Basophilic Focus	Moderate
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
	Biliar Tract	Inflammation	Subacute, Mild
		Mixed Cell Focus	Mild
Note: DEGEN TGLs = 5-3.1			
Note: EOSIN FOCUS TGLs = 4-3.1			
Note: MIXED CL FOCUS TGLs = 5-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 2-9			
Preputial Gland		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 1-8.2			
Spleen		Hematopoietic Cell Proliferation	Mild
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 6-10.1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 297

TRT#: 5

SEX: Male

DAY ON TEST: 295

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 298

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Epididymis

Esophagus

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

Mammary Gland

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Preputial Gland

Salivary Glands

Seminal Vesicle

Spleen

Stomach - Forestomach

Stomach - Glandular

Thyroid Gland

Trachea

Urinary Bladder

Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Brain

Glioma Malignant

Note: [GLIOMA MAL] TGLs = 6-1

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Degeneration

Cystic, Mild

Eosinophilic Focus

Mild

Mixed Cell Focus

Mild

Neoplastic Nodule

Multiple

Note: DEGEN TGLs = 8-3.1

[Eosinophilic Focus TGLS = 9,10-3.1]

Prostate

Inflammation

Chronic Active, Mild

Skin

Basal Cell Adenoma

Multiple

Squamous Cell Papilloma

Note: SQ CL PAPILOM TGLs = 7-17

Note: BASAL CEL ADEN TGLs = 1,2,3,4-13+14+15+16

Testes

Interstit Cell

Adenoma

Note: ADENOMA TGLs = 5-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 298

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 421
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 299

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Preputial Gland
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Prostate
Testes
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Neoplastic Nodule

Minimal
Mild
Mild
Cystic, Moderate
Mild

Note: EOSIN FOCUS TGLs = 3-3.1
Note: DEGEN TGLs = 3,4-3.1
Note: NEOPLASTIC NOD TGLs = 5-3.1
[Degeneration TGLS = 5-3.1]

Lymph Node Mediastinal

Nose

Hemorrhage
Inflammation
Atrophy

Mild
Suppurative, Moderate
Moderate

Seminal Vesicle

Note: ATROPHY TGLs = 1-8.3

Skin

Note: BASAL CEL ADEN TGLs = 6,7,8,9-13+14+15+16

Basal Cell Adenoma

Multiple

Stomach Forestomach

Ulcer

Moderate

Zymbal's Gland

Note: CARCINOMA TGLs = 2-10+10.1

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 300

TRT#: 5

SEX: Male

DAY ON TEST: 426

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Mild
Note: DEGEN	TGLs = 5,6-3.1+3.2		
Note: ANOM HEPAT LOB	TGLs = 4-3.1		
Note: [BASOPH FOCUS]	TGLs = 5,6,7-3.1+3.2		
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Note: HYPERPLASIA	TGLs = 3-4		
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 1-13		
Zymbal's Gland		Ectasia	Moderate
		Inflammation	Granulomatous, Moderate
Note: ECTASIA	TGLs = 2-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 300

TRT#: 5

SEX: Male

DAY ON TEST: 426

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 2-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 301

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Moderate
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Moderate
		Neoplastic Nodule	

Note: NEOPLASTIC NOD TGLs = 6-3.1

Note: MIXED CL FOCUS TGLs = 4,5-3.1

[Mixed Cell Focus TGLS = 6-3.1]

Skin

Sebaceous GI

Adenoma
Basal Cell Adenoma

Note: [ADENOMA] TGLs = 1-13

Note: BASAL CEL ADEN TGLs = 2-14

Zymbal's Gland

Adenoma
Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 302

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Intestine Large	Colon Cecum	Parasite Metazoan Polyp Adenomatous	Minimal
Note: POLYP ADENOMAT TGLs = 8-7.1			
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Moderate
		Necrosis	Focal, Marked
Note: IATROGENIC HEPATIC NECROSIS.			
Note: NECROSIS TGLs = 6-3.1			
Note: [BASOPH FOCUS] TGLs = 6-3.1			
[Degeneration TGLS = 7-3.1]			
[Necrosis TGLS = 5-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Pancreas		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 1,2,3,4-13+14+15+16			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 302

TRT#: 5
DOSE: 0.007

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 421
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 303

TRT#: 5

SEX: Male

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 7-7.1		
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
Note: [BASOPH FOCUS]	TGLs = 5,6-3.1		
Note: [DEGEN]	TGLs = 5,6-3.1		
Pancreas	Acinus	Atrophy	Mild
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN	TGLs = 1,2,3-13+14+15		
Spleen		Fibrosis	Moderate
Note: FIBROSIS	TGLs = 4-3		
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 304

TRT#: 5

SEX: Male

DAY ON TEST: 215

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Skin
Testes
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Prostate
Spleen
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Infarct

Mild
Minimal
Mild
Mild
Marked

Note: INFARCT TGLs = 2-3.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 305

TRT#: 5

SEX: Male

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: DEGEN TGLs = 3-3.1			
Note: [BASOPH FOCUS] TGLs = 3-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular, Sinus	Ectasia	Mild
	Mandibular	Hyperplasia	Plasma Cell, Moderate
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 8-6			
Seminal Vesicle		Atrophy	Moderate
Note: ATROPHY TGLs = 4-8.3			
Skin		Basal Cell Adenoma	
		Squamous Cell Papilloma	
Note: [BASAL CEL ADEN] TGLs = 6-14			
Note: [SQ CL PAPILLOM] TGLs = 5-13			
Spleen		Thrombosis	Marked
Note: THROMBUS TGLs = 7-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 305

TRT#: 5

SEX: Male

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Hyospermia

Moderate

Note: HYOSPERMIA TGLs = 2-8+8.1

Thyroid Gland

Ultimobranchial Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 381

TRT#: 7

SEX: Male

DAY ON TEST: 211

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Seminal Vesicle

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 1,2-3.1			
Lymph Node	Mesenteric	Hemorrhage	Mild
Preputial Gland		Hyperplasia	Focal, Mild
Prostate		Hyperplasia	Focal, Mild
Zymbal's Gland		Carcinoma	

Note: CARCINOMA TGLs = 3-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 382

TRT#: 7

SEX: Male

DAY ON TEST: 229

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: BASOPH FOCUS TGLs = 3-3.1 [Basophilic Focus TGLS = 3-3.1]			
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Marked
Spleen		Congestion	Moderate
Note: CONGESTION TGLs = 1-3			
Zymbal's Gland		Carcinoma	
		Hyperplasia	Squamous, Focal, Mild
Note: CARCINOMA TGLs = 4-10.1			
Note: HYPERPLASIA TGLs = 5-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 384

TRT#: 7

SEX: Male

DAY ON TEST: 268

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	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
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Bone Marrow		Atrophy	Moderate
		Hemorrhage	Moderate
Heart		Cardiomyopathy	Mild
		Mineralization	Moderate
Note: MINERALIZATION	TGLs = 5-3		
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 1,3-5		
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Minimal
Note: DEGEN	TGLs = 4-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
		Mineralization	Moderate
Mesentery	Artery	Mineralization	Moderate
Salivary Glands		Necrosis	Mild
Spleen		Depletion Lymphoid	Moderate
Stomach	Glandular	Mineralization	Marked
Note: MINERALIZATION	TGLs = 6-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 394

TRT#: 7

SEX: Male

DAY ON TEST: 379

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Epididymis	Mesothelioma Malignant	Metastatic (Testes)
Heart	Cardiomyopathy	Mild
Kidney	Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5		
Liver	Degeneration	Cystic, Mild
	Eosinophilic Focus	Mild
	Neoplastic Nodule	
Note: DEGEN TGLs = 7-3.1		
[Degeneration TGLs = 8-3.1]		
[Neoplastic Nodule TGLs = 6-3.1]		
Pharynx	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 9-12.1		
Preputial Gland	Hyperplasia	Squamous, Focal, Mild
Note: HYPERPLASIA TGLs = 2-8.2		
Prostate	Inflammation	Chronic Active, Mild
Skin	Basal Cell Adenoma	Multiple
	Squamous Cell Carcinoma	Multiple
	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 10-13		
Note: BASAL CEL ADEN TGLs = 13,15-15+17		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 394

TRT#: 7

SEX: Male

DAY ON TEST: 379

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC TGLs = 12,14,16-14+16+18

Stomach Glandular

Degeneration

Cystic, Minimal

Testes

Mesothelioma Malignant

Note: MESOTHELIO MAL TGLs = 1-8+8.1

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 11-10+10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 395

TRT#: 7

DOSE: 0.015

SEX: Male

DISP: Dead

DAY ON TEST: 344

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Prostate
Stomach - Glandular
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Testes
Urinary Bladder

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Eosinophilic Focus
Hematopoietic Cell Proliferation
Hepatocellular Carcinoma
Necrosis
Neoplastic Nodule

Moderate
Cystic, Mild
Mild
Minimal
Coagulative, Multifocal, Moderate
Multiple

Note: NEOPLASTIC NOD TGLs = 3,4,5-3.1+3.2

Note: HEPATOCLR CARC TGLs = 3-3.2

[Hematopoietic Cell Proliferation TGLS = 4-3.1+3.2]

Preputial Gland

Note: ADENOMA TGLs = 1-8.3

Skin

Hair Follicle

Adenoma

Basal Cell Adenoma
Hyperplasia
Keratoacanthoma

Multiple
Basal Cell, Focal, Minimal

Note: BASAL CEL ADEN TGLs = 6,7-10.1+10.2

Spleen

[Hematopoietic Cell Proliferation TGLS = 9-3]

Zymbal's Gland

Hematopoietic Cell Proliferation

Hyperplasia

Moderate

Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 396 **TRT#:** 7 **SEX:** Male **DAY ON TEST:** 338
DOSE: 0.015 **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Moderate
Bone	Cranium	Fibrous Osteodystrophy	Mild
	Sternum	Fibrous Osteodystrophy	Mild
Heart		Cardiomyopathy	Mild
		Mineralization	Mild
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous, Multiple
Note: ADENOCARC TGLs = 8,9-6.1			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 10,11-5			
Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
Note: DEGEN TGLs = 14,15-3.1			
Note: EOSIN FOCUS TGLs = 13-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
Note: HYPERPLASIA TGLs = 16-4.1			
Mesentery	Artery	Mineralization	Moderate
Parathyroid Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 12-2]			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 4-8.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 396

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 5-8.3		
Skin		Basal Cell Adenoma	Multiple
	Sebaceous Gl	Hyperplasia	Focal, Mild
Note: BASAL CEL ADEN	TGLs = 1,2,3-10.1+10.2+10.3		
Spleen		Fibrosis	Moderate
Note: FIBROSIS	TGLs = 6-3		
Stomach	Glandular	Mineralization	Moderate
Note: MINERALIZATION	TGLs = 7-6		
Zymbal's Gland		Adenoma	
		Hyperplasia	Glandular, Focal, Mild
Note: ADENOMA	TGLs = 17-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 397

TRT#: 7

SEX: Male

DAY ON TEST: 280

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: EOSIN FOCUS	TGLs = 4,5-3.1		
Note: MIXED CL FOCUS	TGLs = 5-3.1		
Lymph Node	Mandibular	Hemorrhage	Mild
	Mandibular	Hyperplasia	Lymphoid, Moderate
	Mandibular	Squamous Cell Carcinoma	Metastatic (Skin)
Note: HEMORRHAGE	TGLs = 7-9		
Note: HYPERPLASIA	TGLs = 6-9		
Preputial Gland	Duct	Ectasia	Moderate
		Inflammation	Chronic Active, Mild
Note: ECTASIA	TGLs = 1-8.2		
Salivary Glands	Acinus	Atrophy	Moderate
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 8-12.1+12.2		
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 397

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 280
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Ultimobranchial Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 398

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Hyperplasia	Focal, Mild
Bone	Cranium	Fibrous Osteodystrophy	Moderate
	Sternum	Osteopetrosis	Moderate
Note: OSTEOPETROSIS TGLs = 9-11			
Heart		Cardiomyopathy	Mild
		Mineralization	Moderate
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 2-5			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 3-3.1			
Note: DEGEN TGLs = 3-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Mild
Mesentery	Artery	Mineralization	Moderate
Parathyroid Gland		Hyperplasia	Marked
[Hyperplasia TGLs = 4-2]			
Preputial Gland		Hyperplasia	Focal, Mild
Skin		Basal Cell Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 398

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

			Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 6-10.2			
Note: BASAL CEL ADEN	TGLs = 5-10.1			
Stomach		Glandular	Mineralization	Marked
Note: MINERALIZATION	TGLs = 7-6			
Testes			Hyospermia	Moderate
Note: HYOSPERMIA	TGLs = 1-8			
Thymus		Epithel Cell	Hyperplasia	Mild
Tissue NOS			Mineralization	Moderate
Note: TISSUE NOS = AORTA.				
Zymbal's Gland		Bilateral	Adenoma	
Note: ADENOMA	TGLs = 8-10			
PRIMARY CAUSE OF DEATH	-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 399

TRT#: 7

SEX: Male

DAY ON TEST: 312

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Brain	Brain Stem	Inflammation	Acute, Minimal
Heart	Myocardium	Inflammation	Acute, Moderate
	Mitral Valve	Thrombosis	Marked
Note: THROMBUS	TGLs = 9-3		
Kidney		Inflammation	Acute, Mild
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Acute, Multifocal, Mild
	Centrilobular	Necrosis	Coagulative, Moderate
		Neoplastic Nodule	Multiple
Note: ANOM HEPAT LOB	TGLs = 2-3.1		
Note: NECROSIS	TGLs = 1,3-3.1+3.2		
Note: NEOPLASTIC NOD	TGLs = 2-3.2		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Moderate
Note: HYPERPLASIA	TGLs = 8-4+4.1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 399

TRT#: 7

SEX: Male

DAY ON TEST: 312

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Hemorrhage	Mild
Skin		Fibrosis	Multifocal, Marked
		Squamous Cell Papilloma	
Note: FIBROSIS	TGLs = 5,6-10.1		
Note: SQ CL PAPILLOM	TGLs = 10-10.2		
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 7-3		
Zymbal's Gland	Bilateral	Hyperplasia	Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: BACTERIAL COLONIZATION IN MULTIPLE ORGANS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 400

TRT#: 7

SEX: Male

DAY ON TEST: 309

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT	TGLs = 5-7.1		
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: DEGEN	TGLs = 1,2-3.1		
Note: MIXED CL FOCUS	TGLs = 2-3.1		
Note: NEOPLASTIC NOD	TGLs = 1,2-3.1		
Lung	Alveolar Epith	Carcinoma	Metastatic (Zymbal'S Gland)
		Hyperplasia	Multifocal, Moderate
		Infiltration Cellular	Histiocyte, Minimal
Note: HYPERPLASIA	TGLs = 7-4		
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 6-10.2		
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 400

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 309
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 4-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 401

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 2-2]			
Intestine Large	Artery, Colon	Inflammation	Necrotizing, Marked
	Colon	Polyp Adenomatous	Multiple
Note: POLYP ADENOMAT TGLs = 4,5-7.1+7.2			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 6,7-5			
Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
	Caudate Lobe, Periportal	Fibrosis	Moderate
		Hepatocellular Carcinoma	Multiple
		Neoplastic Nodule	
	Caudate Lobe	Regeneration	Moderate
Note: [NEOPLASTIC NOD] TGLs = 11,14-3.2			
Note: EOSIN FOCUS TGLs = 9-3.1			
Note: DEGEN TGLs = 10,12-3.1			
Note: [HEPATOCLR CARC] TGLs = 11,14-3.1			
[Degeneration TGLs = 13-3.2]			
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 8-2			
Prostate		Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 401

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin

Basal Cell Adenoma

Multiple

Fibrosis

Focal, Moderate

Note: BASAL CEL ADEN TGLs = 15,16,17-13+14+15

Note: FIBROSIS TGLs = 18-16

Stomach

Glandular

Degeneration

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 402

TRT#: 7

SEX: Male

DAY ON TEST: 333

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
 Esophagus
 Nose
 Salivary Glands
 Stomach - Glandular
 Urinary Bladder

Adrenal Gland - Medulla
 Intestine Large - Rectum
 Parathyroid Gland
 Seminal Vesicle
 Testes

Brain
 Lymph Node - Mandibular
 Pituitary Gland
 Skin
 Thyroid Gland

Epididymis
 Mammary Gland
 Prostate
 Stomach - Forestomach
 Trachea

MISSING

Intestine Large - Colon
 Islets, Pancreatic

Intestine Small - Duodenum
 Lymph Node - Mesenteric

Intestine Small - Ileum
 Pancreas

Intestine Small - Jejunum
 Spleen

OBSERVATIONS

Bone Marrow

Atrophy

Moderate

Hemorrhage

Moderate

Heart

Cardiomyopathy

Mild

Intestine Large

Cecum

Polyp Adenomatous

Note: POLYP ADENOMAT TGLs = 4-7

Kidney

Nephropathy

Marked

Liver

Basophilic Focus

Mild

Degeneration

Cystic, Moderate

Eosinophilic Focus

Mild

Centrilobular

Necrosis

Coagulative, Mild

Neoplastic Nodule

Note: NEOPLASTIC NOD TGLs = 3-3.1+3.2

Note: SARCOMA TGLs = 1-3.2+3.3

Note: DEGEN TGLs = 2-3.1+3.2+3.3

Lung

Infiltration Cellular

Histiocyte, Minimal

Preputial Gland

Atrophy

Moderate

Hyperplasia

Squamous, Focal, Mild

Thymus

Congestion

Moderate

Depletion Lymphoid

Moderate

Zymbal's Gland

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 402

TRT#: 7

SEX: Male

DAY ON TEST: 333

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: ONE KIDNEY AND ADRENAL PRESENT.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 403

TRT#: 7

DOSE: 0.015

SEX: Male

DISP: Moribund

DAY ON TEST: 264

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Testes
Urinary Bladder

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Skin
Thymus

OBSERVATIONS

Bone Marrow
Kidney

Note: NEPHROPATHY TGLs = 4-5
Note: HYPERPLASIA TGLs = 4-5

Renal Tubule

Hyperplasia
Hyperplasia
Nephropathy

Mild
Focal, Mild
Mild

Liver

Note: MIXED CL FOCUS TGLs = 2,3-3.1
Note: [BASOPH FOCUS] TGLs = 3-3.1

Basophilic Focus
Eosinophilic Focus
Hematopoietic Cell Proliferation
Mixed Cell Focus

Mild
Minimal
Mild

Lung
Lymph Node

Note: HYPERPLASIA TGLs = 1-9

Interstitium
Mandibular
Mandibular

Inflammation
Hyperplasia
Hyperplasia

Minimal
Plasma Cell, Moderate
Lymphoid, Moderate

Spleen
[Hematopoietic Cell Proliferation TGLS = 6-3]

Hematopoietic Cell Proliferation

Moderate

Zymbal's Gland
Note: CARCINOMA TGLs = 5-10.1

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 404

TRT#: 7

SEX: Male

DAY ON TEST: 310

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Inflammation	Acute, Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 2-5			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
	Centrilobular	Hepatocellular Carcinoma	
Note: NECROSIS TGLs = 4-3.1		Necrosis	Coagulative, Moderate
[Hematopoietic Cell Proliferation TGLs = 3-3.1]			
[Necrosis TGLs = 4-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Chronic Active, Moderate
Skin		Ulcer	Marked
Note: ULCER TGLs = 5-10.1			
Spleen	Red Pulp	Necrosis	Moderate
[Necrosis TGLs = 1-3]			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 10-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 404

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Dead

DAY ON TEST: 310
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: BACTERIAL COLONIZATION OF MULTIPLE ORGANS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 405

TRT#: 7

SEX: Male

DAY ON TEST: 254

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Lung
Nose
Preputial Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Spleen
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Thyroid Gland

Brain
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Trachea

OBSERVATIONS

Heart
Intestine Small
 Note: ADENOCARC TGLs = 1-6.1
Kidney
Liver

Jejunum

Cardiomyopathy
Adenocarcinoma

Nephropathy
Basophilic Focus
Eosinophilic Focus
Mixed Cell Focus

Mild
Cystic, Mucinous

Moderate
Mild
Mild
Mild

 Note: MIXED CL FOCUS TGLs = 2-3.1
Zymbal's Gland

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 406

TRT#: 7

SEX: Male

DAY ON TEST: 308

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	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	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Salivary Glands	Spleen	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Bone	Cranium	Fibrous Osteodystrophy	Moderate
	Sternum	Fibrous Osteodystrophy	Moderate
Bone Marrow		Atrophy	Mild
		Hemorrhage	Mild
Kidney	Transit Epithe	Hyperplasia	Multifocal, Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 6-5		
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: NEOPLASTIC NOD	TGLs = 5-3.1		
Note: DEGEN	TGLs = 5-3.1		
Note: MIXED CL FOCUS	TGLs = 5-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Artery	Mineralization	Marked
Nose		Inflammation	Suppurative, Mild
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 7-2		
Pituitary Gland		Cyst	
Preputial Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 406

TRT#: 7

SEX: Male

DAY ON TEST: 308

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA	TGLs = 1-8.2			
Prostate			Inflammation	Chronic Active, Mild
Seminal Vesicle			Atrophy	Moderate
			Hyperplasia	Focal, Minimal
Note: ATROPHY	TGLs = 4-8.3			
Skin			Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 8-10.1			
Stomach		Glandular	Mineralization	Marked
Note: MINERALIZATION	TGLs = 9-6			
Testes			Hypospermia	Moderate
Note: HYOSPERMIA	TGLs = 2,3-8+8.1			
Zymbal's Gland		Bilateral	Hyperplasia	Squamous, Focal, Mild
			Inflammation	Chronic Active, Moderate
Note: HYPERPLASIA	TGLs = 10-10			
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 407

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	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
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Adenocarcinoma	
Note: ADENOCARC	TGLs = 7-7		
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: MIXED CL FOCUS	TGLs = 3-3.1		
[Eosinophilic Focus TGLS = 3-3.1]			
[Hematopoietic Cell Proliferation TGLS = 3-3.1]			
Lung	Interstitialium	Hemorrhage	Mild
		Inflammation	Mild
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: HEMORRHAGE	TGLs = 5-4+4.1		
Note: INFLAMMATION	TGLs = 5-4+4.1		
Pharynx		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 8-13		
Preputial Gland	Duct	Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 407

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 338
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA TGLs = 2-8.2

Prostate

Skin

Note: SQUAM CEL CARC TGLs = 6-10.1

Inflammation

Squamous Cell Carcinoma

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 408

TRT#: 7

SEX: Male

DAY ON TEST: 350

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Brain		Glioma Malignant	Focal, Mild
Intestine Large	Colon	Adenocarcinoma	
Note: ADENOCARC	TGLs = 16-7.1		
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 1,2-5		
Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Hepatoblastoma	
		Hepatocellular Carcinoma	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Moderate
		Neoplastic Nodule	
Note: DEGEN	TGLs = 3,5-3.1+3.2		
Note: HEPATOCLR CARC	TGLs = 6-3.2		
Note: MIXED CL FOCUS	TGLs = 7-3.1+3.2		
Note: HEPATOBLASTOMA WITHIN HEPATOCELLULAR CARCINOMA.			
	[Degeneration TGLS = 7-3.1+3.2]		
	[Eosinophilic Focus TGLS = 6-3.2]		
	[Hepatodiaphragmatic Nodule TGLS = 4-3.1]		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 408

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 350
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Salivary Glands	Acinus	Atrophy	Moderate
Skin	Sebaceous Gl	Adenoma	
		Basal Cell Adenoma	Multiple
		Erosion	Focal, Moderate
	Subcut Tiss	Fibroma	
Note: BASAL CEL ADEN	TGLs = 14,15-10.7+10.8		
Note: BASAL CEL ADEN	TGLs = 11,12,13-10.4+10.5+10.6		
Note: EROSION	TGLs = 8-10.2		
Note: FIBROMA	TGLs = 10-10.3		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 9-10+10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 409

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Intestine Large	Colon	Adenocarcinoma	
	Rectum	Parasite Metazoan	Minimal
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Note: [ADENOCARC] TGLs = 2-7.1			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3,4-5			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Mild
Note: [HEPATOCLR CARC] TGLs = 7-3.2			
Note: DEGEN TGLs = 6-3.1+3.2+3.3			
Note: EOSIN FOCUS TGLs = 5-3.1+3.2+3.3			
Note: MIXED CL FOCUS TGLs = 9-3.3			
[Eosinophilic Focus TGLs = 5-3.1+3.2+3.3]			
Skin		Acanthosis	Moderate
		Basal Cell Adenoma	Multiple
		Squamous Cell Papilloma	Multiple
Note: BASAL CEL ADEN TGLs = 13,14-10.3+10.4			
Note: BASAL CEL ADEN TGLs = 15,18-10.5+10.8			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 409

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ACANTHOSIS TGLs = 12-10.2

Spleen Capsule

Hematopoietic Cell Proliferation
Hyperplasia

Mild
Reticulum Cell, Focal, Moderate

Note: HEMA CELL PROL TGLs = 1-3
[Hyperplasia TGLS = 1-3]

Stomach Glandular

Degeneration

Cystic, Minimal

Testes Bilateral

Hypospermia

Mild

Zymbal's Gland Bilateral

Carcinoma

Note: CARCINOMA TGLs = 10,11-10+10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 410

TRT#: 7

SEX: Male

DAY ON TEST: 281

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Epididymis
Esophagus	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	Preputial Gland	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: DEGEN TGLs = 3-3.1			
Note: MIXED CL FOCUS TGLs = 3-3.1			
Lymph Node	Mediastinal	Infiltration Cellular	Polymorphnuclr, Mild
	Mesenteric	Infiltration Cellular	Polymorphnuclr, Mild
Note: INFILTRAT CELL TGLs = 9-9			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 1,2-10.1			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Necrosis	Moderate
Note: HEMA CELL PROL TGLs = 10-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 410

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Dead

DAY ON TEST: 281
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 411

TRT#: 7

SEX: Male

DAY ON TEST: 324

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Epididymis
Esophagus	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	Pituitary Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Eye		Cataract	Moderate
Note: CATARACT TGLs = 5-13			
Heart		Cardiomyopathy	Mild
Kidney		Hydronephrosis	Mild
		Nephropathy	Moderate
Note: HYDRONEPHROSIS TGLs = 2-5			
Liver		Basophilic Focus	Marked
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Minimal
Note: [BASOPH FOCUS] TGLs = 4-3.1			
Note: ANOM HEPAT LOB TGLs = 3-3.1			
Note: DEGEN TGLs = 4-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Preputial Gland	Duct	Ectasia	Mild
Prostate		Inflammation	Chronic Active, Marked
Skin		Squamous Cell Papilloma	Multiple
Note: SQ CL PAPILOM TGLs = 1,8-10.1+10.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 411	TRT#: 7 DOSE: 0.015	SEX: Male DISP: Moribund	DAY ON TEST: 324 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Hyperplasia Hyospermia Sarcoma	Mild Mild
Tissue NOS Note: TISSUE NOS = PARAVERTEBRAL MASS. Note: SARCOMA TGLs = 6-14			
Urinary Bladder Note: DILATATION TGLs = 7-8.2		Dilatation	Marked
Zymbal's Gland	Bilateral	Hyperplasia	Squamous, Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 412

TRT#: 7

SEX: Male

DAY ON TEST: 296

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Atrophy	Mild
		Hemorrhage	Moderate
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Moderate
Kidney		Nephropathy	Moderate
Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
Note: DEGEN	TGLs = 2-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
	Interstitial	Inflammation	Minimal
Lymph Node	Mesenteric	Atrophy	Mild
	Mediastinal	Pigmentation	Hemosiderin, Moderate
Note: ATROPHY	TGLs = 4-7		
Seminal Vesicle		Atrophy	Mild
		Hyperplasia	Focal, Mild
Note: ATROPHY	TGLs = 1-8.3		
Spleen		Depletion Lymphoid	Moderate
	[Depletion Lymphoid TGLS = 5-3]		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 3-10.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 413

TRT#: 7

SEX: Male

DAY ON TEST: 238

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow		Atrophy	Mild
		Hemorrhage	Mild
Heart		Inflammation	Acute, Mild
	Mitral Valve	Thrombosis	Moderate
Note: POSTMORTEM CLOT IN LEFT ATRIUM.			
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Inflammation	Suppurative, Moderate
		Nephropathy	Marked
Note: INFLAMMATION TGLs = 7-5			
Liver		Degeneration	Cystic, Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
	Centrilobular	Necrosis	Coagulative, Minimal
Note: HEPATOCLR CARC TGLs = 6-3.1			
[Hepatocellular Carcinoma TGLS = 4,5-3.1]			
Lung		Congestion	Marked
		Infiltration Cellular	Histiocyte, Minimal
		Squamous Cell Carcinoma	Metastatic (Skin)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 413

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Dead

DAY ON TEST: 238
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC TGLs = 8-4.1

Note: CONGESTION TGLs = 2-4+4.1

Skin

Squamous Cell Papilloma

Note: [SQ CL PAPILOM] TGLs = 1-13

Stomach

Glandular

Ulcer

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 414

TRT#: 7

SEX: Male

DAY ON TEST: 384

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pituitary Gland
Seminal Vesicle
Testes

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Preputial Gland
Spleen
Thymus

MISSING

Mammary Gland

OBSERVATIONS

Kidney
Note: NEPHROPATHY TGLs = 1,2-5

Nephropathy Marked

Liver

Degeneration Cystic, Marked
Eosinophilic Focus Marked
Mixed Cell Focus Moderate
Neoplastic Nodule Multiple

Note: EOSIN FOCUS TGLs = 3-3.1+3.2+3.3+3.4

Note: NEOPLASTIC NOD TGLs = 6,7,9,10,11,12-3.1+3.2+3.3+3.4

[Eosinophilic Focus TGLs = 3-3.1+3.2+3.3+3.4]

[Mixed Cell Focus TGLs = 4,5,8-3.1+3.2+3.3+3.4]

Lung
Alveolar/Bronchiolar Adenoma Multiple
Infiltration Cellular Histiocyte, Minimal

Note: ALV BRON ADEN TGLs = 15-4.1

Parathyroid Gland

Note: HYPERPLASIA TGLs = 14-2

Hyperplasia Mild

Skin
Basal Cell Adenoma Multiple

Subcut Tiss
Fibroma

Fibrosis Focal, Moderate
Squamous Cell Papilloma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 414

TRT#: 7

SEX: Male

DAY ON TEST: 384

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROMA TGLs = 13-13

Note: FIBROSIS TGLs = 21-18

Note: BASAL CEL ADEN TGLs = 19,20,22,23-16+17+19+20

Note: SQ CL PAPILLOM TGLs = 16-14

Thyroid Gland C Cell

Adenoma

Zymbal's Gland

Adenoma

Note: ADENOMA TGLs = 18-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 415

TRT#: 7

SEX: Male

DAY ON TEST: 280

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Seminal Vesicle
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Testes
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Spleen
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Forestomach
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Degeneration
Mixed Cell Focus

Mild
Moderate

Cystic, Minimal
Moderate

Note: [BASOPH FOCUS] TGLs = 4-3.1
Note: MIXED CL FOCUS TGLs = 2,3-3.1

Lung
Lymph Node
Preputial Gland

Alveolar Epith
Mandibular

Hyperplasia
Hyperplasia
Adenoma
Hyperplasia
Inflammation

Focal, Minimal
Plasma Cell, Moderate

Focal, Mild
Chronic Active, Moderate

Note: ADENOMA TGLs = 1-8.2

Prostate
Zymbal's Gland

Inflammation
Carcinoma
Hyperplasia

Chronic Active, Mild

Squamous, Focal, Mild

Note: CARCINOMA TGLs = 5-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 416

TRT#: 7

SEX: Male

DAY ON TEST: 308

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Esophagus	Intestine Large - Cecum	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
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-1]			
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 8-7			
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: NEOPLASTIC NOD TGLs = 3-3.1			
Note: DEGEN TGLs = 3-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-6			
Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 416

TRT#: 7

SEX: Male

DAY ON TEST: 308

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland		Leukemia Mononuclear	
Preputial Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 2-8.2		
Prostate		Inflammation	Chronic Active, Moderate
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-13		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3		
Testes		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenoma	
Urinary Bladder		Leukemia Mononuclear	
Zymbal's Gland		Ectasia	Moderate
		Hyperplasia	Squamous, Focal, Moderate
Note: HYPERPLASIA	TGLs = 9-10		
Note: ECTASIA	TGLs = 9-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 417

TRT#: 7

SEX: Male

DAY ON TEST: 209

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Stomach	Glandular	Degeneration	Cystic, Minimal
	Forestomach	Ulcer	Moderate
Zymbal's Gland		Carcinoma	

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 418

TRT#: 7

SEX: Male

DAY ON TEST: 226

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	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	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain	Cerebrum	Hemorrhage	Moderate
	Cerebrum	Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 4-1 Note: HEMORRHAGE TGLs = 4-1 Note: CEREBRAL LESION COMPATIBLE WITH HEMORRHAGIC INFARCT.			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: EOSIN FOCUS TGLs = 3-3.1 Note: MIXED CL FOCUS TGLs = 3-3.1			
Lung		Alveolar/Bronchiolar Adenoma	
		Granuloma	Minimal
Note: ALV BRON ADEN TGLs = 2-4			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 5-9			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 6-10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 419

TRT#: 7

SEX: Male

DAY ON TEST: 350

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Testes	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Bone	Cranium	Fibrous Osteodystrophy	Moderate
Eye	Cornea	Inflammation	Suppurative, Mild
Note: INFLAMMATION TGLs = 11-14			
Heart		Mineralization	Moderate
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3,4.5-5			
Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
Note: DEGEN TGLs = 7,8-3.1+3.2			
Note: EOSIN FOCUS TGLs = 6-3.1+3.2			
Note: [HEPATOCLR CARC] TGLs = 9-3.2			
Mesentery	Artery	Mineralization	Moderate
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 18-2			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 2-8.2			
Skin		Basal Cell Adenoma	Multiple
		Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 419

TRT#: 7

SEX: Male

DAY ON TEST: 350

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL ADEN TGLs = 14,15-10.1+10.2

Note: BASAL CEL ADEN TGLs = 16,17-10.3+10.4

Note: ORAL CAVITY MASS = LIP SQUAMOUS CELL CARCINOMA.

Note: SQUAM CEL CARC TGLs = 13-12.1

Stomach Glandular

Mineralization

Moderate

Thyroid Gland

Ultimobranchial Cyst

Tissue NOS

Mineralization

Moderate

Note: TISSUE NOS = THORACIC AORTA.

Note: MINERALIZATION TGLs = 10-13

Zymbal's Gland Bilateral

Adenoma

Note: [ADENOMA] TGLs = 12-10+12.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 420

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland Thymus

OBSERVATIONS

Heart	Mitral Valve	Inflammation	Chronic, Mild
Intestine Large	Colon	Adenocarcinoma	
	Colon	Parasite Metazoan	Mild
	Colon	Polyp Adenomatous	Multiple
Note: POLYP ADENOMAT TGLs = 2,3,4-7.2+7.3 Note: 3 ADENOMATOUS POYLPS PRESENT IN SLIDES 7B AND 7C. Note: NO LESION PRESENT IN SLIDE 7A.			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 5,6-5			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Fatty Change	Multifocal, Minimal
		Neoplastic Nodule	
Note: EOSIN FOCUS TGLs = 8-3.1 [Degeneration TGLS = 10-3.1] [Eosinophilic Focus TGLS = 9-3.1]			
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 14,15,16-10.4+10.5+10.6 Note: BASAL CEL ADEN TGLs = 11,12,13-10.1+10.2+10.3			
Stomach	Glandular	Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 420

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 352
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstitial Cell	Hyperplasia	Mild
Zymbal's Gland		Adenoma	
Note: ADENOMA	TGLs = 7-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 421

TRT#: 7

SEX: Male

DAY ON TEST: 303

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Lymph Node - Mandibular	Mammary Gland	Nose
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Islets, Pancreatic	Kidney
Lymph Node - Mesenteric	Pancreas	Spleen	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 5-6		
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
		Necrosis	Coagulative, Multifocal, Mild
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA	TGLs = 2-4.1	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 3-9		
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 1-8.2		
Prostate		Inflammation	Chronic Active, Mild
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 4-10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 421

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Dead

DAY ON TEST: 303
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 422

TRT#: 7

SEX: Male

DAY ON TEST: 348

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Ileum
Mammary Gland
Preputial Gland
Stomach - Forestomach

Bone Marrow
Intestine Large - Cecum
Islets, Pancreatic
Nose
Prostate
Thyroid Gland

Brain
Intestine Large - Rectum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Trachea

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Bone
Ear
Note: SQUAM CEL CARC TGLs = 9-13
Heart
Note: MINERALIZATION TGLs = 7-3
Intestine Large
Note: ADENOCARC TGLs = 10-7
Kidney
Note: NEPHROPATHY TGLs = 3,4-5
Liver

Cranium
Sternum
Sternum
Colon

Fibrous Osteodystrophy
Fibrous Osteodystrophy
Osteopetrosis
Squamous Cell Carcinoma
Cardiomyopathy
Mineralization
Adenocarcinoma
Nephropathy
Degeneration
Eosinophilic Focus
Hepatodiaphragmatic Nodule
Mixed Cell Focus
Neoplastic Nodule

Moderate
Mild
Moderate
Mild
Moderate
Cystic, Mucinous
Marked
Cystic, Mild
Mild
Moderate

Note: ANOM HEPAT LOB TGLs = 5-3.1

Note: DEGEN TGLs = 6-3.1

[Hepatodiaphragmatic Nodule TGLS = 6-3.1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 422	TRT#: 7 DOSE: 0.015	SEX: Male DISP: Dead	DAY ON TEST: 348 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Parathyroid Gland [Hyperplasia TGLS = 8-2]		Hyperplasia	Moderate
Skin		Basal Cell Adenoma Squamous Cell Papilloma	
Note: SQ CL PAPILLOM TGLs = 1-10.1 Note: BASAL CEL ADEN TGLs = 1-10.1			
Spleen		Depletion Lymphoid	Moderate
Stomach	Glandular	Mineralization	Moderate
Testes	Interstit Cell	Adenoma	
Thymus		Depletion Lymphoid	Moderate
Zymbal's Gland		Ectasia Inflammation	Marked Chronic Active, Mild
Note: ECTASIA TGLs = 11-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 423

TRT#: 7

SEX: Male

DAY ON TEST: 343

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Lung
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Testes

Brain
Intestine Large - Cecum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spleen
Thymus

OBSERVATIONS

Intestine Large
Note: ADENOCARC TGLs = 7,8-7
Intestine Small
Note: ADENOCARC TGLs = 6-6
Kidney
Note: NEPHROPATHY TGLs = 4-5
Liver

Colon
Jejunum

Adenocarcinoma
Adenocarcinoma
Nephropathy
Angiectasis
Basophilic Focus
Degeneration
Eosinophilic Focus
Hepatocellular Carcinoma

Cystic, Mucinous
Moderate
Mild
Mild
Cystic, Mild
Mild

Note: HEPATOCLR CARC TGLs = 2-3.1
Note: DEGEN TGLs = 3-3.1
Preputial Gland
Note: ECTASIA TGLs = 1-8.2
Prostate
Thyroid Gland
Zymbal's Gland
Note: CARCINOMA TGLs = 5-10.1+10.2

Duct

Ectasia
Inflammation
Ultimobranchial Cyst
Carcinoma

Mild
Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 424

TRT#: 7

SEX: Male

DAY ON TEST: 290

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 8-6		
Kidney		Nephropathy	Moderate
Liver		Degeneration	Cystic, Moderate
	Centrilobular	Eosinophilic Focus	Moderate
		Necrosis	Coagulative, Moderate
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD	TGLs = 6-3.1		
Note: NECROSIS	TGLs = 5-3.1		
Note: DEGEN	TGLs = 5-3.1		
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Preputial Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 3,4-8.2		
Skin		Basal Cell Adenoma	
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 2-10.2		
Note: BASAL CEL ADEN	TGLs = 1-10.1		
Thymus		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 7-9		
Zymbal's Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 424

TRT#: 7

SEX: Male

DAY ON TEST: 290

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 425

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Intestine Large	Rectum	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 2-7			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3,4-5			
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Moderate
Note: EOSIN FOCUS TGLs = 5-3.1+3.2+3.3+3.4			
Note: [HEPATOCLR CARC] TGLs = 5,6,7,8-3.2+3.3+3.4			
Note: MIXED CL FOCUS TGLs = 5,6-3.1+3.2+3.3+3.4			
Note: DEGEN TGLs = 6-3.1+3.2+3.3+3.4			
Note: LIVER ENLARGEMENT DUE TO MULTIPLE LESIONS.			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mesenteric, Sinus	Ectasia	Mild
	Mediastinal	Hemorrhage	Moderate
Preputial Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8.3			
Skin	Sebaceous GI	Adenoma	Multiple
		Basal Cell Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 425

TRT#: 7

DOSE: 0.015

SEX: Male

DISP: Moribund

DAY ON TEST: 338

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SLIDE #10A: SQUAMOUS CELL CARCINOMA		Squamous Cell Carcinoma	Multiple
Note: SLIDE #10C: 1 SQ. CELL CARC. + 3 BASAL CELL ADENOMAS.			
Note: SLIDE #10B: BASAL CELL ADENOMA			
Note: SQUAM CEL CARC TGLs = 9,11-10.1+10.3			
Note: BASAL CEL ADEN TGLs = 10,11-10.1+10.2+10.3			
Stomach	Glandular	Degeneration	Cystic, Minimal
Tongue		Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 12-13			
Zymbal's Gland		Carcinoma	
		Hyperplasia	Squamous, Focal, Moderate
Note: HYPERPLASIA TGLs = 14-10			
Note: CARCINOMA TGLs = 13-10.4			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 426

TRT#: 7

SEX: Male

DAY ON TEST: 296

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Testes	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
		Necrosis	Focal, Marked
Note: LIVER HAS FORCEPS ARTEFACT.			
Note: IATROGENIC HEPATIC NECROSIS.			
Note: NECROSIS	TGLs = 1-3.1		
Note: DEGEN	TGLs = 1-3.1		
Prostate		Inflammation	Suppurative, Moderate
Skin		Basal Cell Carcinoma	
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 3-10.1		
Note: BASAL CEL CARC	TGLs = 4-10.2		
Spleen		Congestion	Mild
Stomach	Glandular	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 427

TRT#: 7

DOSE: 0.015

SEX: Male

DISP: Moribund

DAY ON TEST: 343

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Testes

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Parathyroid Gland
Seminal Vesicle
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Kidney
Note: NEPHROPATHY TGLs = 3,4-5
Liver

Nephropathy

Marked

Cholangiocarcinoma
Degeneration
Eosinophilic Focus
Inflammation
Neoplastic Nodule

Cystic, Moderate
Moderate
Granulomatous, Multifocal, Minimal
Multiple

Note: NEOPLASTIC NOD TGLs = 5,7,11-3.1+3.2+3.3
Note: CHOLANGIOCARC TGLs = 5-3.2
Note: DEGEN TGLs = 6-3.1+3.3

Lymph Node
Preputial Gland

Mandibular

Hyperplasia

Plasma Cell, Moderate

Duct

Adenoma
Ectasia

Moderate

Note: [ADENOMA] TGLs = 1-8.2
Note: ECTASIA TGLs = 2-8.2

Skin
Note: SQ CL PAPILOM TGLs = 10-10.2

Squamous Cell Papilloma

Spleen

Congestion

Mild

Stomach

Glandular

Degeneration

Cystic, Minimal

Thyroid Gland

Ultimobranchial Cyst

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 427

TRT#: 7

SEX: Male

DAY ON TEST: 343

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Adenoma

Carcinoma

Note: ADENOMA TGLs = 8,9-10+10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 428

TRT#: 7

SEX: Male

DAY ON TEST: 372

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Testes	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
	Rectum	Polyp Adenomatous	
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Moderate
		Fatty Change	Multifocal, Minimal
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: DEGEN	TGLs = 2,4-3.1		
Note: NEOPLASTIC NOD	TGLs = 3-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
Skin		Basal Cell Adenoma	Multiple
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 8-16		
Note: BASAL CEL ADEN	TGLs = 5,6,7-13+14+15		
Stomach	Glandular	Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 428

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 372
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland
Zymbal's Gland

Ultimobranchial Cyst
Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 429

TRT#: 7

DOSE: 0.015

SEX: Male

DISP: Moribund

DAY ON TEST: 305

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Mesenteric	Spleen	Thymus
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OBSERVATIONS

Bone Marrow		Atrophy	Mild
		Hemorrhage	Mild
Brain	Cranial Nerve, Meninges	Carcinoma	Metastatic (Zymbal'S Gland)
	Cerebrum	Hemorrhage	Mild
	Thalamus	Hemorrhage	Mild
Note: CANNOT ENTER REPEAT MORPHOLOGY ON METASTATIC LESION.			
Note: HEMORRHAGE TGLs = 8-1			
Note: CARCINOMA TGLs = 5-14			
Eye	Cornea	Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 3-13			
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Moderate
Liver		Degeneration	Cystic, Mild
		Hepatocellular Carcinoma	
Note: DEGEN TGLs = 2-3.1			
Note: CYSTIC BILE DUCT WITHIN NEOPLASTIC NODULE.			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Prostate		Inflammation	Chronic Active, Moderate
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 6-10.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 429

TRT#: 7

SEX: Male

DAY ON TEST: 305

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Degeneration	Cystic, Minimal
	Glandular	Erosion	Mild
Note: EROSION TGLs = 7-6			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 4-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 430

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Liver		Degeneration	Cystic, Mild
		Hematopoietic Cell Proliferation	Minimal
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD	TGLs = 4-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC	TGLs = 6-4.1		
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS	TGLs = 3-13		
Preputial Gland		Inflammation	Chronic Active, Mild
Note: INFLAMMATION	TGLs = 2-8.2		
Skin		Basal Cell Adenoma	Multiple
		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 9-10.3		
Note: BASAL CEL ADEN	TGLs = 7,8-10.1+10.2		
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Degeneration	Cystic, Minimal
Zymbal's Gland		Ectasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 430

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA TGLs = 10-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 431

TRT#: 7

SEX: Male

DAY ON TEST: 328

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Nose
Prostate
Stomach - Glandular

Epididymis
Intestine Large - Rectum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Trachea

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Bone Marrow
Brain
Heart
 Note: DILATATION TGLs = 10-3
Kidney
Liver

Cerebellum
Renal Tubule

Proliferation Connective Tissue
Necrosis
Dilatation
Necrosis
Nephropathy
Degeneration
Eosinophilic Focus
Fatty Change
Hepatodiaphragmatic Nodule
Neoplastic Nodule

Moderate
Marked
Moderate
Marked
Moderate
Cystic, Mild
Moderate
Multifocal, Mild
Multiple

Note: NEOPLASTIC NOD TGLs = 7-3.1
Note: ANOM HEPAT LOB TGLs = 6-3.2
Note: DEGEN TGLs = 8-3.1

Lung
 Capillary
 Note: FIBRIN THROMBI IN PULMONARY CAPILLARIES.
 Note: THROMBUS TGLs = 12-4.1
 Note: NECROSIS TGLs = 11-4

Necrosis
Thrombosis

Focal, Marked
Moderate

Preputial Gland Duct

Ectasia

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 431

TRT#: 7

SEX: Male

DAY ON TEST: 328

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Basal Cell Adenoma Squamous Cell Carcinoma	Multiple
Note: [BASAL CEL ADEN] TGLs = 1-10.1		
Note: BASAL CEL ADEN TGLs = 2,3-10.2+10.3		
Note: SQUAM CEL CARC TGLs = 4-10.4		
Spleen	Hematopoietic Cell Proliferation	Moderate
	Necrosis	Multifocal, Mild
Testes	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 5-8		
Thymus	Depletion Lymphoid	Moderate
Zymbal's Gland	Adenoma	
	Ectasia	Moderate
Note: ECTASIA TGLs = 13-10		
Note: ADENOMA TGLs = 13-10		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 432

TRT#: 7

SEX: Male

DAY ON TEST: 280

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Stomach - Forestomach
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Testes
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Spleen
Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Angiectasis
Basophilic Focus
Degeneration
Eosinophilic Focus
Hematocyst
Mixed Cell Focus
Neoplastic Nodule

Moderate
Moderate
Moderate
Cystic, Mild
Moderate
Moderate

[Basophilic Focus TGLS = 5-3.3]

[Neoplastic Nodule TGLS = 2,3,4,6,7,8-3.1+3.2+3.4+3.5]

Lung

Note: ALV BRON ADEN TGLs = 9-4.1

Lymph Node
Preputial Gland

Mandibular
Duct

Alveolar/Bronchiolar Adenoma

Hyperplasia
Ectasia
Inflammation

Plasma Cell, Moderate
Mild
Chronic Active, Mild

Note: ECTASIA TGLs = 1-8.2

Skin

Note: [ADENOMA] TGLs = 11-10.2

Zymbal's Gland

Note: CARCINOMA TGLs = 10-10.1

Sebaceous GI

Adenoma

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 433

TRT#: 7

SEX: Male

DAY ON TEST: 265

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Small - Duodenum
Lung
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Testes

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Forestomach
Trachea

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
Intestine Large
Kidney
Liver

Colon

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Mixed Cell Focus
Necrosis

Mild
Moderate
Mild
Cystic, Minimal
Mild
Moderate
Coagulative, Focal, Mild

Note: MIXED CL FOCUS TGLs = 2-3.1

Lymph Node
Preputial Gland
Thymus
Zymbal's Gland

Mandibular

Hyperplasia
Inflammation
Hemorrhage
Carcinoma

Plasma Cell, Moderate
Chronic Active, Mild
Mild

Note: CARCINOMA TGLs = 3-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 434

TRT#: 7

SEX: Male

DAY ON TEST: 309

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
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
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Intestine Large Note: [ADENOCARC] TGLs = 6-7	Colon	Adenocarcinoma	
Kidney Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Moderate
Liver		Basophilic Focus Degeneration Eosinophilic Focus Hematopoietic Cell Proliferation	Mild Cystic, Minimal Mild Minimal
	Bile Duct	Hyperplasia Neoplastic Nodule	Adenomatous, Focal, Mild
Note: NEOPLASTIC NOD TGLs = 2-3.1			
Lymph Node	Mandibular, Sinus	Ectasia	Mild
Preputial Gland Note: ECTASIA TGLs = 1-8.2	Duct	Ectasia	Moderate
Skin Note: SQUAM CEL CARC TGLs = 4-10.1		Squamous Cell Carcinoma	
Spleen Note: HEMA CELL PROL TGLs = 5-3		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Degeneration	Cystic, Minimal
Zymbal's Gland		Adenoma Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 434

TRT#: 7

SEX: Male

DAY ON TEST: 309

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 7-10

Note: ADENOMA TGLs = 7-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 435

TRT#: 7

SEX: Male

DAY ON TEST: 264

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Spleen
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Pancreas
Salivary Glands
Stomach - Forestomach
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Trachea

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Mixed Cell Focus

Mild
Mild
Cystic, Minimal
Moderate
Moderate

Note: EOSIN FOCUS TGLs = 1-3.1
[Degeneration TGLS = 1-3.1]

Lymph Node
Preputial Gland
Zymbal's Gland

Mandibular

Hyperplasia
Inflammation
Carcinoma

Plasma Cell, Mild
Chronic Active, Mild

Note: CARCINOMA TGLs = 2-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 436

TRT#: 7

DOSE: 0.015

SEX: Male

DISP: Dead

DAY ON TEST: 324

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Esophagus

Intestine Small - Duodenum

Lung

Nose

Preputial Gland

Stomach - Glandular

Trachea

Adrenal Gland - Medulla

Intestine Large - Cecum

Intestine Small - Ileum

Lymph Node - Mandibular

Pancreas

Salivary Glands

Testes

Urinary Bladder

Bone Marrow

Intestine Large - Colon

Intestine Small - Jejunum

Lymph Node - Mesenteric

Parathyroid Gland

Seminal Vesicle

Thymus

Zymbal's Gland

Brain

Intestine Large - Rectum

Islets, Pancreatic

Mammary Gland

Pituitary Gland

Stomach - Forestomach

Thyroid Gland

OBSERVATIONS

Epididymis

Heart

Myocardium

Note: RIGHT ATRIUM HAS LARGE POSTMORTEM CLOT. NO DX.

Kidney

Note: NEPHROPATHY TGLs = 3-5

Liver

[Degeneration TGLs = 4-3.1]

[Eosinophilic Focus TGLs = 5-3.1]

Lymph Node

Note: HEMORRHAGE TGLs = 7-9

Pharynx

Prostate

Skin

Note: BASAL CEL ADEN TGLs = 2-10.2

Note: SQ CL PAPILOM TGLs = 1-10.1

Spleen

Mediastinal

Inflammation

Cardiomyopathy

Inflammation

Nephropathy

Degeneration

Eosinophilic Focus

Fatty Change

Necrosis

Hemorrhage

Squamous Cell Papilloma

Inflammation

Basal Cell Adenoma

Squamous Cell Papilloma

Necrosis

Suppurative, Mild

Mild

Chronic Active, Mild

Moderate

Cystic, Moderate

Moderate

Multifocal, Minimal

Multifocal, Mild

Moderate

Chronic Active, Mild

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 436

TRT#: 7

SEX: Male

DAY ON TEST: 324

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PERIFOLLICULAR SPLENIC NECROSIS.

PRIMARY CAUSE OF DEATH

-

Animal Note: MULTIPLE ORGANS HAVE BACTERIAL COLONIES. NO DX.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 437

TRT#: 7

SEX: Male

DAY ON TEST: 372

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
Note: EOSIN FOCUS	TGLs = 4-3.1		
Note: DEGEN	TGLs = 3-3.1		
Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Multifocal, Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8.2		
Skin		Basal Cell Adenoma	Multiple
		Keratoacanthoma	
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 7,9-17+14		
Note: BASAL CEL ADEN	TGLs = 5,6,8-15+16+13		
Stomach	Glandular	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 438

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Intestine Small Note: HYPERPLASIA TGLs = 2-6	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Moderate
Liver Note: EOSIN FOCUS TGLs = 4-3.1 [Basophilic Focus TGLS = 6,7,8-3.1+3.2+3.3] [Eosinophilic Focus TGLS = 4-3.1] [Mixed Cell Focus TGLS = 5-3.1+3.2+3.3]		Basophilic Focus Degeneration Eosinophilic Focus Mixed Cell Focus Neoplastic Nodule	Mild Cystic, Mild Moderate Moderate Multiple
Lymph Node Preputial Gland Note: INFLAMMATION TGLs = 1-8.2	Mandibular	Hyperplasia Inflammation	Plasma Cell, Moderate Chronic Active, Mild
Prostate Skin Note: BASAL CEL ADEN TGLs = 11,12-10.2+10.3 Note: SQ CL PAPILOM TGLs = 10-10.1		Inflammation Basal Cell Adenoma Squamous Cell Papilloma	Chronic Active, Minimal Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 438

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Ultimobranchial Cyst

Tongue

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 9-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 439

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Epididymis		Mesothelioma Malignant	Metastatic (Testes)
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 5-6.1		
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 6,7-5		
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Moderate
Note: [BASOPH FOCUS]	TGLs = 11,12-3.1+3.2		
[Degeneration TGLS = 10-3.1+3.2]			
[Eosinophilic Focus TGLS = 9-3.1]			
[Mixed Cell Focus TGLS = 9-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN	TGLs = 18,19,20-10.7+10.8+10.9		
Note: BASAL CEL ADEN	TGLs = 15,16,17-10.4+10.5+10.6		
Note: BASAL CEL ADEN	TGLs = 8,13,14-10.1+10.2+10.3		
Note: 9 BASAL CELL ADENOMAS.			
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 439

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 352
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3-8+14]

Thymus

Zymbal's Gland

Bilateral

Cyst

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 440

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Epididymis

Esophagus

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

Pancreas

Parathyroid Gland

Pituitary Gland

Preputial Gland

Prostate

Salivary Glands

Seminal Vesicle

Stomach - Forestomach

Testes

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Zymbal's Gland

OBSERVATIONS

Brain

Meningioma Malignant

[Meningioma Malignant TGLs = 11-1]

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 3,4-5

Liver

Basophilic Focus

Mild

Degeneration

Cystic, Moderate

Eosinophilic Focus

Moderate

Hematopoietic Cell Proliferation

Mild

Neoplastic Nodule

Multiple

Note: NEOPLASTIC NOD TGLs = 5,6,7,8-3.1+3.2+3.3

Lung

Alveolar Epith

Hyperplasia

Multifocal, Mild

Skin

Sebaceous Gl

Adenoma

Basal Cell Adenoma

Keratoacanthoma

Squamous Cell Carcinoma

Note: KERATOACANTHMA TGLs = 9-10.1

Note: [BASAL CEL ADEN] TGLs = 13,14-10.3+10.4

Note: SQUAM CEL CARC TGLs = 12-10.2

Note: ADENOMA TGLs = 15-10.5

Spleen

Hematopoietic Cell Proliferation

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 440

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 338
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 2-3

Stomach	Glandular	Degeneration	Cystic, Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 441

TRT#: 7

SEX: Male

DAY ON TEST: 372

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Moderate
	Rectum	Polyp Adenomatous	
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 1-5			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Neoplastic Nodule	
Note: DEGEN TGLs = 2,3-3.1			
[Degeneration TGLs = 4-3.1]			
[Eosinophilic Focus TGLs = 3-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Skin		Basal Cell Adenoma	Multiple
	Hair Follicle	Hyperplasia	Basal Cell, Multifocal, Mild
		Keratoacanthoma	
		Squamous Cell Carcinoma	Multiple
Note: BASAL CEL ADEN TGLs = 7,8-15+16			
Note: SQUAM CEL CARC TGLs = 6,9-14+17			
Note: KERATOACANTHMA TGLs = 5-13			
Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 441

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 372
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 11-3]

Stomach	Glandular	Degeneration	Cystic, Minimal
Testes	Interstit Cell	Hyperplasia	Mild
Zymbal's Gland		Hyperplasia	Squamous, Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 442

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pituitary Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Preputial Gland
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Eye
Note: INFLAMMATION TGLs = 1-13
Heart
Kidney
Note: NEPHROPATHY TGLs = 3,4-5
Liver

Note: [BASOPH FOCUS] TGLs = 10-3.2
Note: EOSIN FOCUS TGLs = 7-3.1
[Eosinophilic Focus TGLs = 8,9-3.1+3.2]
Parathyroid Gland
[Hyperplasia TGLs = 6-2]
Seminal Vesicle
Note: ATROPHY TGLs = 2-8.3
Skin

Cornea

Inflammation

Chronic Active, Moderate

Cardiomyopathy
Nephropathy

Mild
Marked

Basophilic Focus
Degeneration
Eosinophilic Focus
Mixed Cell Focus

Cystic, Marked
Moderate
Minimal

Hyperplasia

Moderate

Atrophy

Moderate

Basal Cell Adenoma
Keratoacanthoma
Squamous Cell Carcinoma

Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 442

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL ADEN TGLs = 14,15,16-10.4+10.5+10.6

Note: BASAL CEL ADEN TGLs = 11,12,13-10.1+10.2+10.3

Stomach Glandular

Mineralization

Moderate

Zymbal's Gland

Adenoma

Hyperplasia

Squamous, Focal, Mild

Note: CARCINOMA TGLs = 5-10

Note: ADENOMA TGLs = 5-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 443

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Marked
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD TGLs = 8,9-3.3+3.4			
Note: DEGEN TGLs = 4-3.1+3.2+3.3+3.4			
Note: EOSIN FOCUS TGLs = 3,4-3.1+3.2+3.3+3.4			
[Neoplastic Nodule TGLS = 5,6,7-3.1+3.2]			
Prostate		Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Mild
Skin	Sebaceous GI	Adenoma	
		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 10,11,12-10.2+10.3+10.4			
Note: 7 BASAL CELL ADENOMAS.			
Note: BASAL CEL ADEN TGLs = 13,14,15-10.5+10.6+10.7			
Note: BASAL CEL ADEN TGLs = 16-10.8			
Testes	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 443

TRT#: 7
DOSE: 0.015

SEX: Male
DISP: Moribund

DAY ON TEST: 352
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Adenoma
Carcinoma

Note: CARCINOMA TGLs = 2-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 444

TRT#: 7

SEX: Male

DAY ON TEST: 324

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Moderate
		Fatty Change	Focal, Minimal
		Hepatodiaphragmatic Nodule	
		Neoplastic Nodule	Multiple
Note: ANOM HEPAT LOB TGLs = 9-3.1 [Hepatodiaphragmatic Nodule TGLS = 2,8-3.1+3.2]			
Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Infiltration Cellular	Histiocyte, Minimal
Note: ALV BRON ADEN TGLs = 6,7-4+4.1			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mandibular	Hyperplasia	Plasma Cell, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 4,5-10.1+10.2			
Tongue		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-13			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 445

TRT#: 7

SEX: Male

DAY ON TEST: 349

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Lymph Node - Mesenteric
Preputial Gland
Skin
Trachea

Bone Marrow
Intestine Large - Rectum
Nose
Prostate
Testes

Brain
Lung
Parathyroid Gland
Salivary Glands
Thymus

Epididymis
Lymph Node - Mandibular
Pituitary Gland
Seminal Vesicle
Thyroid Gland

MISSING

Intestine Small - Duodenum
Mammary Gland
Stomach - Glandular

Intestine Small - Ileum
Pancreas

Intestine Small - Jejunum
Spleen

Islets, Pancreatic
Stomach - Forestomach

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

Urinary Bladder

OBSERVATIONS

Adrenal Gland
Ear
Note: [SQ CL PAPILOM] TGLs = 6-10.1
Intestine Large
Note: POLYP ADENOMAT TGLs = 7-7
Kidney
Note: NEPHROPATHY TGLs = 1,3-5
Liver
Note: DEGEN TGLs = 4,5-3.1+3.2

Medulla
Canal
Colon
Colon

Pheochromocytoma Benign
Squamous Cell Papilloma
Parasite Metazoan
Polyp Adenomatous
Nephropathy
Degeneration
Eosinophilic Focus

Mild
Marked
Cystic, Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 446

TRT#: 7

SEX: Male

DAY ON TEST: 383

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Epididymis		Mesothelioma Malignant	Metastatic (Testes)
Heart		Cardiomyopathy	Minimal
Intestine Small	Ileum	Adenocarcinoma	Multiple
	Ileum	Hemorrhage	Mild
	Ileum	Polyp Adenomatous	
Note: HEMORRHAGE TGLs = 15-6.3			
Note: POLYP ADENOMAT TGLs = 14-6.2			
[Polyp Adenomatous TGLS = 13,16-6.1+6.4+6.5]			
Kidney		Cyst	
		Nephropathy	Moderate
Note: CYST TGLs = 2-5			
Note: NEPHROPATHY TGLs = 2-5			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	Multiple
		Neoplastic Nodule	
Note: DEGEN TGLs = 6,8,10-3.1+3.2+3.3			
Note: [HEPATOCLR CARC] TGLs = 7-3.1			
Note: EOSIN FOCUS TGLs = 5-3.1+3.2+3.3			
[Degeneration TGLS = 9-3.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 446	TRT#: 7 DOSE: 0.015	SEX: Male DISP: Dead	DAY ON TEST: 383 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Hemorrhage	Moderate
Parathyroid Gland Note: HYPERPLASIA TGLs = 4-2		Hyperplasia	Mild
Skin Note: BASAL CEL ADEN TGLs = 3-13		Basal Cell Adenoma	
Testes Note: MESOTHELIO MAL TGLs = 1-8+8.1		Hypospermia Mesothelioma Malignant	Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 447

TRT#: 7

SEX: Male

DAY ON TEST: 211

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 2-6		
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Moderate
		Fatty Change	Multifocal, Minimal
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: EOSIN FOCUS	TGLs = 4,5-3.1		
[Eosinophilic Focus TGLs = 5-3.1]			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Marked
Note: HYPERPLASIA	TGLs = 3-9		
Mesentery		Inflammation	Granulomatous, Minimal
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 6-13		
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL	TGLs = 1-3		
Testes		Mineralization	Minimal
Zymbal's Gland		Ectasia	Mild
Note: ECTASIA	TGLs = 7-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 447

TRT#: 7

SEX: Male

DAY ON TEST: 211

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 448

TRT#: 7

SEX: Male

DAY ON TEST: 338

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Heart	Intestine Large - Rectum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Spleen	Thymus
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mesenteric		

OBSERVATIONS

Bone Marrow		Atrophy	Moderate
		Hemorrhage	Moderate
Intest Large			
Note: DARK LARGE INTESTINES DUE TO AUTOLYSIS. TGL 5-7.			
Intest Small			
Note: DARK SMALL INTESTINE DUE TO AUTOLYSIS. TGL 6-6.			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 8-5			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
Note: ONLY ONE SECTION OF LIVER PRESENT.			
Note: DEGEN TGLs = 4-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
	Interstitial	Inflammation	Minimal
Lymph Node			
Note: BLACK MESENTERIC NODE DUE TO AUTOLYSIS. TGL 7-7.			
Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 448	TRT#: 7 DOSE: 0.015	SEX: Male DISP: Dead	DAY ON TEST: 338 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland Note: ECTASIA TGLs = 1-8.2	Duct	Ectasia	Minimal
Seminal Vesicle Note: ATROPHY TGLs = 3-8.3		Atrophy	Mild
Testes Note: HYOSPERMIA TGLs = 2-8+8.1		Hyospermia	Mild
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 449

TRT#: 7

SEX: Male

DAY ON TEST: 306

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Lymph Node - Mesenteric
Salivary Glands
Testes
Zymbal's Gland

Brain
Intestine Large - Rectum
Mammary Gland
Seminal Vesicle
Thyroid Gland

Epididymis
Islets, Pancreatic
Nose
Skin
Trachea

Esophagus
Lymph Node - Mandibular
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland
Bone Marrow

Heart
Intestine Large
 Note: INFLAMMATION TGLs = 7-7
Kidney
 Note: NEPHROPATHY TGLs = 1,2-5
Liver

 Note: DEGEN TGLs = 3-3.1
Lung
Lymph Node
 Note: HEMORRHAGE TGLs = 6-9
Pancreas
Parathyroid Gland
Preputial Gland

Cortex

Cecum

Mediastinal

Artery

Duct

Vacuolization Cytoplasmic
Atrophy
Hemorrhage
Mineralization
Inflammation

Nephropathy

Basophilic Focus
Degeneration
Eosinophilic Focus
Fatty Change
Mixed Cell Focus

Mineralization
Hemorrhage

Mineralization
Hyperplasia
Adenoma
Ectasia

Focal, Minimal
Mild
Moderate
Moderate
Suppurative, Mild

Marked

Mild
Cystic, Mild
Mild
Multifocal, Minimal
Mild

Moderate
Moderate

Moderate
Moderate

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 449	TRT#: 7 DOSE: 0.015	SEX: Male DISP: Dead	DAY ON TEST: 306 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibroma	
Note: FIBROMA	TGLs = 8-3		
Stomach	Glandular	Mineralization	Moderate
Thymus		Ectopic Parathyroid Gland	
Tissue NOS		Mineralization	Marked
Note: TISSUE NOS = THORACIC AORTA. TGL 5-3.			
Note: MINERALIZATION	TGLs = 5-3		

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 450

TRT#: 7

SEX: Male

DAY ON TEST: 280

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	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 - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Moderate
Liver		Angiectasis	Mild
		Basophilic Focus	Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	Mild
Note: ANGIECTASIS	TGLs = 2-3.1		
Note: DEGEN	TGLs = 1-3.1		
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Zymbal's Gland		Carcinoma	
		Hypertrophy	Moderate
Note: CARCINOMA	TGLs = 3-10.1		
Note: HYPERTROPHY	TGLs = 4-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 81

TRT#: 2

SEX: Female

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Lymph Node
Uterus

Mediastinal

Nephropathy
Hemorrhage
Polyp Stromal

Minimal
Mild

Note: POLYP STROMAL TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 82

TRT#: 2

SEX: Female

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Skin
Thymus
Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Lung
Pituitary Gland

Infiltration Cellular
Angiectasis

Histiocyte, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 83	TRT#: 2	SEX: Female	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Nose		Hemorrhage	Mild
Pancreas		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 84	TRT#: 2	SEX: Female	DAY ON TEST: 421
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 2-3.1			
Nose		Hemorrhage	Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST TGLs = 1-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 85

TRT#: 2

SEX: Female

DAY ON TEST: 421

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Liver
Ovary
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Clitoral Gland
Note: ECTASIA TGLs = 1-8

Duct

Ectasia

Mild

Kidney
Lung
Lymph Node
Note: HEMORRHAGE TGLs = 2-9

Mediastinal

Nephropathy
Infiltration Cellular
Hemorrhage

Minimal
Histiocyte, Minimal
Moderate

Pituitary Gland

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 86	TRT#: 2	SEX: Female	DAY ON TEST: 422
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Bone Marrow		Hyperplasia	Reticulum Cell, Multifocal, Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
	Rectum	Parasite Metazoan	Minimal
Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
[Hyperplasia TGLS = 3-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Mammary Gland		Fibrosis	Focal, Mild
Uterus		Hydrometra	Moderate
Note: HYDROMETRA	TGLs = 2-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 87

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 422
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	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	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Parathyroid Gland

OBSERVATIONS

Brain Note: COMPRESSION TGLs = 3-1	Brain Stem	Compression	Mild
Clitoral Gland	Duct	Ectasia	Mild
Kidney		Nephropathy	Minimal
Liver [Inflammation TGLS = 1-3.1]		Hepatodiaphragmatic Nodule Inflammation	Granulomatous, Multifocal, Minimal
Mammary Gland	Duct	Ectasia	Mild
Pituitary Gland [Adenoma TGLS = 2-2]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 88	TRT#: 2	SEX: Female	DAY ON TEST: 422
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	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	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Nose		Hemorrhage	Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 89	TRT#: 2	SEX: Female	DAY ON TEST: 422
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	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	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Zymbal's Gland

OBSERVATIONS

Liver	Bile Duct	Hyperplasia	Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 90	TRT#: 2	SEX: Female	DAY ON TEST: 422
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Minimal
Mammary Gland	Duct	Ectasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-2]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 91

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 92

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Lung
Lymph Node
Pituitary Gland
[Adenoma TGLS = 2-2]
Uterus
Note: POLYP STROMAL TGLs = 1-8

Mediastinal
Pars Distalis

Infiltration Cellular
Hemorrhage
Adenoma
Polyp Stromal

Histiocyte, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 93	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 422 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Clitoral Gland	Duct	Ectasia	Mild
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Pancreas	Acinus	Atrophy	Mild
Skin		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-13			
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 94

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 95

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney
Nose
Uterus

Nephropathy
Hemorrhage
Polyp Stromal

Mild
Mild

Note: POLYP STROMAL TGLs = 1-8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 96	TRT#: 2	SEX: Female	DAY ON TEST: 422
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Granulomatous, Multifocal, Minimal
Note: ANOM HEPAT LOB TGLs = 3-3.1			
Lymph Node	Mandibular	Hemorrhage	Mild
	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 1-9			
Note: HEMORRHAGE TGLs = 2-9			
Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 97

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Skin
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Spleen
Thyroid Gland

MISSING

Parathyroid Gland

Zymbal's Gland

OBSERVATIONS

Kidney
Liver
Pituitary Gland
Uterus

Nephropathy
Inflammation
Cyst
Hydrometra

Minimal
Granulomatous, Multifocal, Minimal
Moderate

Note: HYDROMETRA TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 98

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Liver
Nose
Uterus

Inflammation
Hemorrhage
Polyp Stromal

Granulomatous, Multifocal, Minimal
Mild

Note: POLYP STROMAL TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 99	TRT#: 2	SEX: Female	DAY ON TEST: 422
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 100

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund

DAY ON TEST: 390
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Heart	Epicardium	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-4+4.1			
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 13-18			
Note: LEUKEMIA MONUC TGLs = 2,6,7-13+16+14			
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 5-15			
Skin	Subcut Tiss	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-10			
Spleen		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	
[Hemorrhage TGLS = 4-3]			
[Leukemia Mononuclear TGLS = 3-3]			
Stomach	Glandular	Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 100

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund

DAY ON TEST: 390
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach

Inflammation

Chronic, Mild

Note: INFLAMMATION TGLs = 1-6
Thymus

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 11-9+17

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 101	TRT#: 2	SEX: Female	DAY ON TEST: 422
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Pancreas	Acinus	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Thymus
Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney
Skin

Nephropathy
Inflammation

Mild
Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney		Nephropathy	Minimal
Pancreas	Acinus	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney
Liver
Uterus

Nephropathy
Inflammation
Polyp Stromal

Minimal
Granulomatous, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Liver
Lymph Node

Duct
Bile Duct
Mandibular, Sinus

Ectasia
Hyperplasia
Ectasia

Moderate
Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 106

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 422
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-3.1]			
Lymph Node	Mandibular	Hemorrhage	Mild
	Mediastinal	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 107	TRT#: 2	SEX: Female	DAY ON TEST: 422
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

OBSERVATIONS

Liver
Lung
Lymph Node
Pituitary Gland

Mediastinal

Inflammation
Infiltration Cellular
Hemorrhage
Cyst

Granulomatous, Multifocal, Minimal
Histiocyte, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Zymbal's Gland

OBSERVATIONS

Kidney
Liver
Thymus
Uterus

Epithel Cell

Nephropathy
Inflammation
Hyperplasia
Polyp Stromal

Minimal
Granulomatous, Multifocal, Minimal
Mild

Note: POLYP STROMAL TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 110	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 425 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Mammary Gland		Fibroadenoma	

Note: FIBROADENOMA TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 111

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 425
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	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	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Moderate
Kidney		Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 112

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney
Ovary
Note: CYST TGLs = 1-8

Periovarn Tiss

Nephropathy
Cyst

Mild

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 113

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Liver
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Clitoral Gland
Note: ECTASIA TGLs = 1-10
Kidney
Lung
Lymph Node
Pituitary Gland

Duct

Mediastinal

Ectasia

Nephropathy
Infiltration Cellular
Hemorrhage
Cyst

Mild

Minimal
Histiocyte, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 114

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Stomach - Glandular
Uterus

MISSING

Pituitary Gland

OBSERVATIONS

Kidney
Lymph Node
Thyroid Gland

Mediastinal

Nephropathy
Hemorrhage
Ultimobranchial Cyst

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 115

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 425
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	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	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Kidney		Nephropathy	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 1-7+13		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 116

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney
Liver
Lymph Node
Uterus

Bile Duct
Mediastinal

Nephropathy
Hyperplasia
Hemorrhage
Polyp Stromal

Minimal
Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Minimal
	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Mesentery	Fat	Necrosis	Focal, Marked

Note: NECROSIS TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 118

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Liver
Lymph Node

Bile Duct
Mediastinal

Hyperplasia
Hemorrhage

Mild
Mild

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 119

TRT#: 2

SEX: Female

DAY ON TEST: 425

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Liver

Lymph Node
Pituitary Gland
Note: CYST TGLs = 1-2

Bile Duct

Mediastinal

Hyperplasia
Inflammation
Hemorrhage
Cyst

Minimal
Granulomatous, Multifocal, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 120

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 425
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
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
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Lymph Node	Mandibular, Sinus	Ectasia	Mild
Thyroid Gland		Ultimobranchial Cyst	
Uterus		Hydrometra	Moderate
		Polyp Stromal	

Note: HYDROMETRA TGLs = 2-8
Note: POLYP STROMAL TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 121

TRT#: 2

SEX: Female

DAY ON TEST: 426

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Lymph Node	Mediastinal	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 122	TRT#: 2	SEX: Female	DAY ON TEST: 426
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 2-3.1			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mandibular	Hyperplasia	Lymphoid, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 123

TRT#: 2

SEX: Female

DAY ON TEST: 426

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 124

TRT#: 2

SEX: Female

DAY ON TEST: 426

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Pituitary Gland		Cyst	
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus		Hydrometra	Mild

Note: HYDROMETRA TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 125

TRT#: 2

SEX: Female

DAY ON TEST: 426

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney
Liver
Lymph Node
Uterus

Bile Duct
Mediastinal

Nephropathy
Hyperplasia
Hemorrhage
Polyp Stromal

Mild
Minimal
Mild

Note: POLYP STROMAL TGLs = 1-8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 126

TRT#: 2

SEX: Female

DAY ON TEST: 426

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney
Pituitary Gland

Nephropathy
Cyst

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 127	TRT#: 2	SEX: Female	DAY ON TEST: 426
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	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	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Mild
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN	TGLs = 1-4.1		
Pituitary Gland		Cyst	
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 128	TRT#: 2	SEX: Female	DAY ON TEST: 426
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	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	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Minimal
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 1-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:47
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 129

TRT#: 2

SEX: Female

DAY ON TEST: 426

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Zymbal's Gland

OBSERVATIONS

Kidney
Liver
Lymph Node
Uterus
Note: HYDROMETRA TGLs = 1-8

Mandibular, Sinus

Nephropathy
Inflammation
Ectasia
Hydrometra

Mild
Granulomatous, Multifocal, Minimal
Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:47

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 130

TRT#: 2

SEX: Female

DAY ON TEST: 426

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

Clitoral Gland

Esophagus

Heart

Intestine Large - Cecum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Ovary

Pancreas

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

Zymbal's Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Large

Colon

Parasite Metazoan

Mild

Rectum

Parasite Metazoan

Mild

Kidney

Nephropathy

Minimal

Liver

Hepatodiaphragmatic Nodule

Note: ANOM HEPAT LOB TGLs = 1-3.1

Lymph Node

Mediastinal

Hemorrhage

Mild

Pituitary Gland

Pars Distalis

Cyst

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 131

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 426
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 132	TRT#: 2	SEX: Female	DAY ON TEST: 426
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
Pituitary Gland		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 133

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 427
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Parathyroid Gland	Thymus
-------------------	--------

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Pituitary Gland		Cyst	
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 427

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Skin
Thymus
Uterus

MISSING

Pituitary Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 427

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Note: ECTASIA TGLs = 1-8
Kidney
Lymph Node
Pituitary Gland

Duct

Mediastinal

Ectasia

Nephropathy
Hemorrhage
Cyst

Mild

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 136

TRT#: 2

SEX: Female

DAY ON TEST: 427

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Kidney
Liver
Lung
Pituitary Gland

Nephropathy
Inflammation
Infiltration Cellular
Cyst

Minimal
Granulomatous, Multifocal, Minimal
Histiocyte, Minimal

Note: CYST TGLs = 1-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 137

TRT#: 2

SEX: Female

DAY ON TEST: 427

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Liver
Lung
Ovary
 Note: CYST TGLs = 1-8
Pituitary Gland
 [Cyst TGLS = 2-2]

Bile Duct
Alveolar Epith
Periovarn Tiss

Nephropathy
Hyperplasia
Hyperplasia
Cyst

Cyst

Minimal
Minimal
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 138

TRT#: 2

SEX: Female

DAY ON TEST: 427

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

OBSERVATIONS

Liver	Bile Duct	Hyperplasia Inflammation Infiltration Cellular	Minimal Granulomatous, Multifocal, Minimal Histiocyte, Minimal
Lung		Hemorrhage	Minimal
Lymph Node	Mandibular		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 139

TRT#: 2

SEX: Female

DAY ON TEST: 427

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	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	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 140

TRT#: 2

SEX: Female

DAY ON TEST: 427

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Salivary Glands
Stomach - Glandular
Uterus

OBSERVATIONS

Kidney
Pituitary Gland
Thymus

Epithel Cell

Nephropathy
Cyst
Hyperplasia

Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 186

TRT#: 4

SEX: Female

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Kidney

Karyomegaly
Nephropathy
Inflammation
Mixed Cell Focus

Minimal
Minimal
Granulomatous, Multifocal, Mild
Minimal

[Inflammation TGLS = 4-3.1]

[Mixed Cell Focus TGLS = 4-3.1]

Lung
Lymph Node
Mesentery

Alveolar Epith
Mediastinal
Fat

Hyperplasia
Hemorrhage
Necrosis

Focal, Minimal
Mild
Focal, Marked

Note: NECROSIS TGLs = 1-13

Skin

Note: ACANTHOSIS TGLs = 2-14

Acanthosis

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 187

TRT#: 4

SEX: Female

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Stomach - Glandular
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Salivary Glands
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Spleen
Trachea

MISSING

Mammary Gland

Thymus

OBSERVATIONS

Kidney
Liver
Lung
Lymph Node
Ovary
 Note: CYST TGLs = 1-8
Pituitary Gland
Skin
 Note: BASAL CEL ADEN TGLs = 2-13

Mandibular, Sinus

Nephropathy
Mixed Cell Focus
Infiltration Cellular
Ectasia
Cyst

Cyst
Basal Cell Adenoma

Minimal
Minimal
Histiocyte, Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 188

TRT#: 4

SEX: Female

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
Note: EOSIN FOCUS	TGLs = 3-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus		Sarcoma Stromal	
Note: SARC STROMAL	TGLs = 2-8+8.2		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 189

TRT#: 4

SEX: Female

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Intestine Large
Kidney

Liver

Rectum

Parasite Metazoan
Karyomegaly
Nephropathy
Basophilic Focus
Inflammation
Mixed Cell Focus
Necrosis

Mild
Minimal
Mild
Minimal
Granulomatous, Multifocal, Minimal
Mild
Coagulative, Focal, Minimal

Note: MIXED CL FOCUS TGLs = 1-3.1

Lung
Pituitary Gland

Infiltration Cellular
Cyst

Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 190

TRT#: 4

SEX: Female

DAY ON TEST: 421

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Inflammation
Mixed Cell Focus

Mild
Granulomatous, Multifocal, Minimal
Mild

[Mixed Cell Focus TGLS = 1-3.1]

Lymph Node
Thymus
Zymbal's Gland

Mandibular
Epithel Cell

Hyperplasia
Hyperplasia
Adenoma

Plasma Cell, Moderate
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 191

TRT#: 4

SEX: Female

DAY ON TEST: 393

DOSE: 0.003

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Skin
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Trachea

MISSING

Thymus

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 2-8.1

Kidney

Liver

Lung

Lymph Node

Ovary

Note: GRAN THECA BGN TGLs = 3-8

Note: CYST TGLs = 3-8

Spleen

Stomach

Mandibular

Periovarn Tiss

Glandular

Adenoma

Karyomegaly

Nephropathy

Hematopoietic Cell Proliferation

Infiltration Cellular

Hyperplasia

Cyst

Granulosa-Theca Tumor Benign

Hematopoietic Cell Proliferation

Degeneration

Minimal

Mild

Mild

Histiocyte, Minimal

Plasma Cell, Moderate

Marked

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 192

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Clitoral Gland	Duct	Ectasia	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 2-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 1-9			
Pituitary Gland		Angiectasis	Mild
[Angiectasis TGLS = 3-2]			
Skin		Squamous Cell Papilloma	
Note: [SQ CL PAPILLOM] TGLs = 4-13			
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 193

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 2-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 194

TRT#: 4

SEX: Female

DAY ON TEST: 357

DOSE: 0.003

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Mammary Gland
Nose	Ovary	Parathyroid Gland	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland	Bilateral, Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 1,2-8		
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Minimal
Liver		Inflammation	Granulomatous, Multifocal, Minimal
Lymph Node	Mediastinal	Lymphoma Malignant	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Salivary Glands		Inflammation	Chronic, Marked
Stomach	Glandular	Degeneration	Cystic, Minimal
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 3-10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 195	TRT#: 4 DOSE: 0.003	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 422 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 2-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 196

TRT#: 4

SEX: Female

DAY ON TEST: 391

DOSE: 0.003

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

MISSING

Lymph Node - Mandibular

Salivary Glands

OBSERVATIONS

Clitoral Gland
Note: [ADENOMA] TGLs = 1-8.1

Kidney

Liver

Spleen

[Hematopoietic Cell Proliferation TGLS = 3-3]

Adenoma

Karyomegaly

Nephropathy

Basophilic Focus

Eosinophilic Focus

Mixed Cell Focus

Hematopoietic Cell Proliferation

Minimal

Mild

Minimal

Mild

Mild

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 197

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

OBSERVATIONS

Kidney

Karyomegaly
Nephropathy
Inflammation
Mixed Cell Focus

Minimal
Moderate
Granulomatous, Multifocal, Minimal
Mild

[Mixed Cell Focus TGLS = 1-3.1]

Pituitary Gland

Hemorrhage

Moderate

[Hemorrhage TGLS = 2-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 198

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Brain
Intestine Large
Kidney

Cortex
Rectum

Hyperplasia
Astrocytoma Malignant
Parasite Metazoan
Karyomegaly
Nephropathy
Mixed Cell Focus

Focal, Mild
Minimal
Minimal
Mild
Mild

Liver
Note: MIXED CL FOCUS TGLs = 1-3.1+3.2

Lung
Zymbal's Gland

Infiltration Cellular
Hyperplasia

Histiocyte, Minimal
Glandular, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 199

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Uterus

OBSERVATIONS

Adrenal Gland
Clitoral Gland
Note: CARCINOMA TGLs = 1-8
Kidney
Liver

Cortex

Hyperplasia
Carcinoma

Focal, Mild

Lung
Note: INFILTRAT CELL TGLs = 2-4+4.1
Pituitary Gland
Thymus

Epithel Cell

Nephropathy
Inflammation
Mixed Cell Focus
Infiltration Cellular

Minimal
Granulomatous, Multifocal, Minimal
Mild
Histiocyte, Minimal

Cyst
Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 200	TRT#: 4	SEX: Female	DAY ON TEST: 422
	DOSE: 0.003	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	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	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Mild
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
Pituitary Gland		Angiectasis	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 201

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney

Liver

Lung
Ovary
 Note: CYST TGLs = 1-8
Pituitary Gland
Uterus
 Note: POLYP STROMAL TGLs = 2-8
Zymbal's Gland

 Note: HYPERPLASIA TGLs = 4-10
 Note: CYST TGLs = 4-10

Periovarn Tiss

Karyomegaly
Nephropathy
Inflammation
Mixed Cell Focus
Infiltration Cellular
Cyst

Cyst
Polyp Stromal

Cyst
Hyperplasia

Minimal
Mild
Granulomatous, Multifocal, Minimal
Mild
Histiocyte, Minimal

Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 202

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Mixed Cell Focus	Mild
	[Mixed Cell Focus TGLS = 3-3.1]		
Lung		Infiltration Cellular	Histiocyte, Minimal
Skin		Acanthosis	Mild
	Note: ACANTHOSIS TGLs = 1-13		
Uterus		Pigmentation	Hemosiderin, Focal, Moderate
	Note: PIGMENT TGLs = 2-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 203

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

OBSERVATIONS

Bone
Intestine Large
Kidney

Liver

Sternum
Rectum

Osteopetrosis
Parasite Metazoan
Karyomegaly
Nephropathy
Inflammation
Mixed Cell Focus

Moderate
Minimal
Minimal
Mild
Granulomatous, Multifocal, Minimal
Mild

Note: MIXED CL FOCUS TGLs = 2-3.1

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 204

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

OBSERVATIONS

Kidney

Karyomegaly
Nephropathy
Inflammation
Mixed Cell Focus

Minimal
Mild
Granulomatous, Multifocal, Minimal
Mild

Liver

Mediastinal

Hemorrhage
Angiectasis

Mild
Mild

Note: MIXED CL FOCUS TGLs = 1-3.1

Lymph Node
Pituitary Gland

Note: ANGIECTASIS TGLs = 2,3-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 205

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Kidney

Adenoma
Karyomegaly
Nephropathy
Hematopoietic Cell Proliferation
Mixed Cell Focus

Minimal
Mild
Minimal
Minimal

Liver

Infiltration Cellular
Cyst
Cyst
Polyp Stromal

Histiocyte, Minimal

Note: MIXED CL FOCUS TGLs = 2-3.1

Lung
Pituitary Gland
Thymus
Uterus

Hyperplasia

Glandular, Focal, Mild

Note: POLYP STROMAL TGLs = 1-8

Zymbal's Gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 206

TRT#: 4

SEX: Female

DAY ON TEST: 426

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Glandular
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Urinary Bladder

Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Uterus

OBSERVATIONS

Adrenal Gland
Note: CYST TGLs = 2-2
Cortex
Clitoral Gland
Note: CARCINOMA TGLs = 1-8+8.1
Kidney
Liver
Note: MIXED CL FOCUS TGLs = 4-3.1
Spleen
Note: HEMA CELL PROL TGLs = 3-3
Thymus
Thyroid Gland

Cortex
Epithel Cell
C Cell

Cyst
Carcinoma
Karyomegaly
Nephropathy
Eosinophilic Focus
Hematopoietic Cell Proliferation
Mixed Cell Focus
Hematopoietic Cell Proliferation
Hyperplasia
Adenoma
Minimal
Mild
Mild
Minimal
Mild
Marked
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 207

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

OBSERVATIONS

Clitoral Gland
Kidney
Liver

Inflammation
Nephropathy
Basophilic Focus
Hepatodiaphragmatic Nodule
Inflammation
Mixed Cell Focus

Chronic Active, Mild
Minimal
Minimal
Granulomatous, Multifocal, Minimal
Mild

[Inflammation TGLS = 3-3.1+3.2]

[Mixed Cell Focus TGLS = 2-3.2]

Thymus

Epithel Cell

Cyst
Hyperplasia
Adenoma

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 208

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Mixed Cell Focus

Mild
Cystic, Mild
Mild

[Degeneration TGLS = 2-3.1+3.2]

[Mixed Cell Focus TGLS = 2-3.1+3.2]

Lung

Infiltration Cellular

Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 209

TRT#: 4

SEX: Female

DAY ON TEST: 426

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3.1			
Lymph Node	Mandibular, Sinus	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Skin		Squamous Cell Carcinoma	
Note: "SPINDLE CELL CARCINOMA".			
Note: SQUAM CEL CARC TGLs = 1-13			
Spleen		Leukemia Mononuclear	
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 210

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Trachea

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Inflammation
Leukemia Mononuclear
Mixed Cell Focus

Minimal
Cystic, Mild
Granulomatous, Multifocal, Minimal
Mild

Note: MIXED CL FOCUS TGLs = 1-3.1
[Mixed Cell Focus TGLS = 1-3.1]

Lung
Spleen
Thymus

Alveolar Epith
Epithel Cell

Hyperplasia
Leukemia Mononuclear
Hyperplasia

Focal, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 211	TRT#: 4 DOSE: 0.003	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 422 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Mixed Cell Focus	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Pituitary Gland		Angiectasis	Mild
[Angiectasis TGLS = 1-2]			
Thymus	Epithel Cell	Hyperplasia	Mild
Zymbal's Gland		Hyperplasia	Glandular, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 212

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Mandibular

Salivary Glands

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule
Mixed Cell Focus

Mild
Minimal
Mild
Mild

[Hepatodiaphragmatic Nodule TGLS = 3-3.1]

Lymph Node
Ovary

Mediastinal
Periovarn Tiss

Hemorrhage
Cyst

Mild

Note: CYST TGLs = 2-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 213

TRT#: 4

SEX: Female

DAY ON TEST: 391

DOSE: 0.003

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Intestine Small	Jejunum	Polyp Adenomatous	
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 6-3.1]			
Lymph Node	Mandibular	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 5-9		
Uterus		Hydrometra	Moderate
		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 4-8		
Note: HYDROMETRA	TGLs = 2,3-8		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 7-10.10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 214

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Inflammation
Mixed Cell Focus

Mild
Minimal
Granulomatous, Multifocal, Minimal
Mild

Note: MIXED CL FOCUS TGLs = 1-3.1

Lung
Ovary

Infiltration Cellular
Cyst

Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 215

TRT#: 4

SEX: Female

DAY ON TEST: 426

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Clitoral Gland			Carcinoma	
Note: CARCINOMA	TGLs = 2-8.1			
Intestine Large		Rectum	Parasite Metazoan	Minimal
Kidney			Nephropathy	Minimal
Liver			Basophilic Focus	Minimal
			Hematopoietic Cell Proliferation	Minimal
			Mixed Cell Focus	Minimal
Lung			Infiltration Cellular	Histiocyte, Minimal
Mammary Gland			Adenocarcinoma	
Note: ADENOCARC	TGLs = 1-10.1			
Spleen			Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-3]				
Thymus		Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 216

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Minimal
Note: ANOM HEPAT LOB TGLs = 3-3.1			
Lymph Node	Mandibular, Sinus	Ectasia	Mild
	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 1,2-9			
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 4-12+12.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 217

TRT#: 4

SEX: Female

DAY ON TEST: 422

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Heart	Coron Artery	Inflammation	Chronic, Mild
Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 5-3.1			
Note: ANOM HEPAT LOB TGLs = 4-3.4			
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 1-10			
Pituitary Gland		Hemorrhage	Moderate
[Hemorrhage TGLS = 6,7-2]			
Uterus		Hydrometra	Moderate
		Polyp Stromal	
Note: HYDROMETRA TGLs = 2-8			
Note: POLYP STROMAL TGLs = 3-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 218

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Uterus

MISSING

Thymus

OBSERVATIONS

Clitoral Gland
Kidney

Adenoma
Karyomegaly
Nephropathy
Necrosis

Minimal
Mild
Focal, Marked

Liver
Note: IATROGENIC HEPATIC NECROSIS.
[Necrosis TGLS = 3-3.1]

Lung
Ovary
Note: CYST TGLs = 1-8

Periovarn Tiss

Infiltration Cellular
Cyst

Histiocyte, Minimal

Skin
Note: BASAL CEL ADEN TGLs = 4-13
Zymbal's Gland

Basal Cell Adenoma
Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 219

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8			
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 6-7.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 3-3.1]			
[Mixed Cell Focus TGLS = 4-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
Note: PIGMENT TGLs = 5-13			
Mesentery		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 7-14			
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 220 TRT#: 4 SEX: Female DAY ON TEST: 391
DOSE: 0.003 DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Mammary Gland	Nose	Thymus	Zymbal's Gland
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OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: [ADENOMA] TGLs = 1-8			
Kidney		Karyomegaly	Minimal
Liver		Eosinophilic Focus	Mild, Moderate
	Centrilobular	Hematopoietic Cell Proliferation	Minimal
[Eosinophilic Focus TGLS = 3-3.1]		Necrosis	Mild
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 221

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Minimal
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
Note: DEGEN	TGLs = 1-3.1		
Note: MIXED CL FOCUS	TGLs = 1-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 222

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thyroid Gland
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Ovary
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Kidney
Lung
Mammary Gland
Pituitary Gland
 Note: ADENOMA TGLs = 2-2
Skin
 Note: BASAL CEL ADEN TGLs = 1-13
Thymus
Tongue

 Note: SQ CL PAPILOM TGLs = 3-14

Pars Distalis

Epithel Cell

Nephropathy
Infiltration Cellular
Fibroadenoma
Adenoma

Basal Cell Adenoma

Hyperplasia
Squamous Cell Carcinoma
Squamous Cell Papilloma

Minimal
Histiocyte, Minimal

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 223

TRT#: 4

SEX: Female

DAY ON TEST: 384

DOSE: 0.003

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Clitoral 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	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Thymus

OBSERVATIONS

Bone	Cranium	Osteopetrosis	Moderate
Note: OSTEOPETROSIS TGLs = 4-12+13			
Brain		Meningioma Malignant	
Note: ZYMBAL'S CARCINOMA NOT DESCRIBED GROSSLY.			
Note: MENINGIOMA RESEMBLES METASTATIC ZYMBAL'S CARCINOMA.			
Note: ZYMBAL'S CARCINOMA NOT PRESENT IN MICROSLIDES.			
[Meningioma Malignant TGLS = 2-1]			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 1-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Pituitary Gland		Cyst	
Note: CYST TGLs = 3-2			
Stomach	Glandular	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 224

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney

Karyomegaly

Minimal

Liver

Nephropathy

Mild

Uterus

Mixed Cell Focus

Minimal

Note: POLYP STROMAL TGLs = 1-8

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 225

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Glandular
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8.1

Kidney

Liver

[Mixed Cell Focus TGLS = 3-3.1]

Pituitary Gland

[Angiectasis TGLS = 2-2]

Thymus

Epithel Cell

Carcinoma

Karyomegaly
Nephropathy
Inflammation
Mixed Cell Focus

Angiectasis

Hyperplasia

Minimal
Mild
Granulomatous, Multifocal, Minimal
Mild
Moderate
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 226

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 3-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 1-13			
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 227

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Clitoral Gland Note: ECTASIA TGLs = 2-8	Duct	Ectasia	Moderate
Kidney		Nephropathy	Minimal
Liver		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Pituitary Gland		Cyst	
Skin		Acanthosis	Moderate
Note: ACANTHOSIS TGLs = 1-13		Ulcer	Marked
Note: ULCER TGLs = 1-13			
Thymus	Epithel Cell	Hyperplasia	Mild
Thyroid Gland		Ultimobranchial Cyst	
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 4-14			
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 228

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Spleen
Trachea

MISSING

Thymus

OBSERVATIONS

Kidney

Karyomegaly
Nephropathy

Minimal
Minimal

Liver

Eosinophilic Focus
Hepatodiaphragmatic Nodule
Hyperplasia
Mixed Cell Focus

Minimal
Mild
Minimal

Bile Duct

[Hyperplasia TGLS = 2-3.1]

Lung

Infiltration Cellular

Histiocyte, Minimal

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Mandibular

Hyperplasia

Plasma Cell, Moderate

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 229

TRT#: 4

SEX: Female

DAY ON TEST: 425

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Intestine Small	Jejunum	Leiomyoma	
Note: LEIOMYOMA TGLs = 2-6.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Pharynx		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 3-12.1			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Hydrometra	Moderate
Note: HYDROMETRA TGLs = 1-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 230

TRT#: 4

SEX: Female

DAY ON TEST: 426

DOSE: 0.003

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Ovary	Thymus	Uterus
-------	--------	--------

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Necrosis	Focal, Mild
Note: NECROSIS TGLs = 3-3.1			
Note: IATROGENIC HEPATIC NECROSIS.			
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL TGLs = 2-4+4.1			
Pancreas	Acinus	Atrophy	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 315

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

MISSING

Lymph Node - Mandibular

Salivary Glands

OBSERVATIONS

Heart
Kidney

Cardiomyopathy
Karyomegaly
Nephropathy
Basophilic Focus
Eosinophilic Focus
Mixed Cell Focus

Minimal
Minimal
Mild
Minimal
Mild
Mild

Liver

Carcinoma
Hemorrhage
Hyperplasia

Metastatic (Zymbal'S Gland)
Mild
Focal, Minimal

Lung

Alveolar Epith

Carcinoma

Note: HEMORRHAGE TGLs = 2-4+4.1

Zymbal's Gland

Note: CARCINOMA TGLs = 3-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 338

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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 - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
	[Mixed Cell Focus TGLS = 5-3.1]		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mandibular	Hyperplasia	Plasma Cell, Mild
Note: HYPERPLASIA	TGLs = 3-9		
Note: HEMORRHAGE	TGLs = 4-9		
Nose		Fungus	Moderate
		Inflammation	Suppurative, Moderate
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 6-10.2		
Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 7-3]		
Zymbal's Gland		Adenoma	
		Carcinoma	
Note: CARCINOMA	TGLs = 1-10.1		
Note: ADENOMA	TGLs = 8-10		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

OBSERVATIONS

Kidney

Karyomegaly

Minimal

Liver

Nephropathy

Mild

Eosinophilic Focus

Mild

Inflammation

Granulomatous, Multifocal, Minimal

Mixed Cell Focus

Moderate

Note: MIXED CL FOCUS TGLs = 1-3.1

Lung

Infiltration Cellular

Histiocyte, Minimal

Tongue

Squamous Cell Papilloma

Note: SQ CL PAPILOM TGLs = 3-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Kidney
 Note: NEPHROPATHY TGLs = 2-5
Liver
 Note: MIXED CL FOCUS TGLs = 3-3.1
Lung

Ovary
 Note: CYST TGLs = 1-8

Cortex

Alveolar Epith

Periovarn Tiss

Vacuolization Cytoplasmic
Nephropathy

Mixed Cell Focus

Hyperplasia
Infiltration Cellular
Cyst

Focal, Mild
Moderate

Moderate

Focal, Minimal
Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: [ADENOMA] TGLs = 1-8.1			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5			
Liver		Angiectasis	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: EOSIN FOCUS TGLs = 2-3.1			
Note: MIXED CL FOCUS TGLs = 3-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Thymus	Epithel Cell	Hyperplasia	Mild
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 338

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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 - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 1-3.1			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 4-4.1			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Pituitary Gland		Cyst	
Skin		Basal Cell Adenoma	
Note: [BASAL CEL ADEN] TGLs = 3-10.2			
Spleen		Hematopoietic Cell Proliferation	Moderate
Zymbal's Gland		Carcinoma	
		Hyperplasia	Squamous, Focal, Mild
Note: CARCINOMA TGLs = 2-10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
[Eosinophilic Focus TGLS = 3-3.1]			
[Mixed Cell Focus TGLS = 3,4-3.1]			
Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	Multifocal, Minimal
		Hyperplasia	Histiocyte, Minimal
		Infiltration Cellular	
Pituitary Gland		Cyst	
[Cyst TGLS = 5-2]			
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus	Endometrium	Cyst	
Note: CYST	TGLs = 2-8		
Zymbal's Gland		Ectasia	Mild
		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 419

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

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

Ovary

Pancreas

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

Zymbal's Gland

OBSERVATIONS

Brain

Glioma Malignant

Clitoral Gland

Adenoma

Note: [ADENOMA] TGLs = 1-8.1

Kidney

Karyomegaly

Minimal

Note: NEPHROPATHY TGLs = 4-5

Nephropathy

Moderate

Liver

Eosinophilic Focus

Moderate

Note: MIXED CL FOCUS TGLs = 5,6-3.1

Mixed Cell Focus

Mild

Note: EOSIN FOCUS TGLs = 5,6-3.1

Lung

Alveolar Epith

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Hyperplasia	Focal, Mild
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Intestine Small	Ileum	Polyp Adenomatous	
Note: POLYP ADENOMAT	TGLs = 2-6.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 7-5		
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS	TGLs = 5,6-3.1		
Note: EOSIN FOCUS	TGLs = 5-3.1		
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Pituitary Gland		Cyst	
[Cyst TGLS = 4-2]			
Stomach	Glandular	Degeneration	Cystic, Mild
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 3-8.1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 314

TRT#: 6
DOSE: 0.007

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 421
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Clitoral Gland	Duct	Adenoma	
		Ectasia	Mild
Note: [ADENOMA] TGLs = 1-8			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 2-5			
Liver		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Mild
		Mixed Cell Focus	Mild
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 4-3.2			
Note: MIXED CL FOCUS TGLs = 3-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL TGLs = 5-4+4.1			
Skin	Epidermis	Hyperplasia	Basal Cell, Focal, Minimal
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 6-13			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 405

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 4-8.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: DEGEN TGLs = 6-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 3-9			
Nose		Hemorrhage	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Uterus		Hydrometra	Mild
Note: HYDROMETRA TGLs = 5-8			
Zymbal's Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 1,2-10.1+10.2			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

MISSING

Lymph Node - Mandibular	Salivary Glands
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OBSERVATIONS

Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 6-7.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 5-3.1 [Mixed Cell Focus TGLs = 4-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Skin		Basal Cell Carcinoma	
		Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 2-14 Note: BASAL CEL CARC TGLs = 1-13			
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 3-3			
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Clitoral Gland		Sarcoma	
Note: SARCOMA	TGLs = 2-8.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Moderate
		Necrosis	Focal, Moderate
Note: MIXED CL FOCUS	TGLs = 5-3.1		
Note: IATROGENIC HEPATIC NECROSIS.			
Lung	Alveolar Epith	Basal Cell Carcinoma	Metastatic (Skin)
		Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Note: BASAL CEL CARC	TGLs = 7-4		
Lymph Node	Mandibular	Basal Cell Carcinoma	Metastatic (Skin)
Note: BASAL CEL CARC	TGLs = 1-9		
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 6-13		
Uterus	Endometrium	Cyst	
Note: CYST	TGLs = 3-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Clitoral Gland	Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 1-8		
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Minimal
Note: EOSIN FOCUS	TGLs = 2-3.1		
Note: MIXED CL FOCUS	TGLs = 2-3.1		
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Deep Cervical	Hyperplasia	Plasma Cell, Moderate
	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA	TGLs = 4-9		
Nose		Hemorrhage	Mild
Salivary Glands		Inflammation	Chronic, Mild
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 3-10+10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 320 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 422
DOSE: 0.007 **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 3-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Renal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 2-14			
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 5-15			
Thymus	Epithel Cell	Hyperplasia	Mild
Zymbal's Gland		Hyperplasia	Glandular, Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral 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 - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Mixed Cell Focus	Minimal
Note: MIXED CL FOCUS	TGLs = 2,3-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular, Sinus	Ectasia	Moderate
	Mandibular	Hyperplasia	Plasma Cell, Moderate
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 4-13		
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-2]			
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 5-12+14		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Bone Marrow

Brain

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

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

Zymbal's Gland

OBSERVATIONS

Adrenal Gland

Bilateral, Cortex

Hyperplasia

Multifocal, Mild

Clitoral Gland

Carcinoma

Note: ONE NEOPLASM INVOLVING BOTH CLITORAL GLANDS.

Note: CARCINOMA TGLs = 1-8.1

Kidney

Karyomegaly

Minimal

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 2,3-5

Liver

Eosinophilic Focus

Mild

Hematopoietic Cell Proliferation

Minimal

Mixed Cell Focus

Mild

Note: EOSIN FOCUS TGLs = 5-3.1

Note: MIXED CL FOCUS TGLs = 5-3.1

Lung

Carcinoma

Metastatic (Clitoral Gland)

Infiltration Cellular

Histiocyte, Minimal

Note: CARCINOMA TGLs = 7-3.1

Ovary

Periovarn Tiss

Cyst

Note: CYST TGLs = 4-8

Pituitary Gland

Cyst

[Cyst TGLS = 8-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 184

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Moderate
Kidney		Nephropathy	Minimal
Liver		Eosinophilic Focus	Mild
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA TGLs = 4-4+4.1			
Lymph Node		Carcinoma	Metastatic (Zymbal'S Gland)
	Mandibular	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: CARCINOMA TGLs = 2-13			
Note: HYPERPLASIA TGLs = 1-9			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 3-14			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 370

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	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	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Bone Marrow		Hemorrhage	Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 2-8.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Eosinophilic Focus	Mild
Lung		Congestion	Mild
Note: CONGESTION	TGLs = 4-4+4.1		
Lymph Node	Mesenteric	Atrophy	Marked
Stomach	Glandular	Degeneration	Cystic, Minimal
	Glandular	Erosion	Multifocal, Mild
	Forestomach	Hyperplasia	Multifocal, Mild
Note: HYPERPLASIA	TGLs = 5-6		
Note: EROSION	TGLs = 6-6		
Thyroid Gland	Follicular Cel	Adenoma	
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 390

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Intestine Large	Rectum	Adenocarcinoma	
Note: [ADENOCARC] TGLs = 2-7.1			
Kidney		Karyomegaly	Minimal
Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Marked
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Minimal
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 1-9			
Pharynx		Squamous Cell Carcinoma	Metastatic (Zymbal'S Gland)
Note: SQ CL PAPILOM TGLs = 5-12.1		Squamous Cell Papilloma	
Note: SQUAM CEL CARC TGLs = 5-12.1			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 4-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 378

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Heart		Mineralization	Moderate
Intest Small			
Note: INTUSSUSCEPTION TGL = 6-7.			
Note: ILIAC INTUSSUSCEPTION APPEARS AGONAL OR POSTMORTEM.			
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Eosinophilic Focus	Moderate
		Neoplastic Nodule	
Note: EOSIN FOCUS	TGLs = 4-3.1		
Note: NEOPLASTIC NOD	TGLs = 3,5-3.2+3.3		
Lung		Mineralization	Mild
Stomach	Glandular	Mineralization	Moderate
Tissue NOS		Mineralization	Marked
Note: TISSUE NOS = THORACIC AORTA.			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Glandular
Uterus

MISSING

Thymus

OBSERVATIONS

Clitoral Gland
Kidney

Hyperplasia
Karyomegaly
Nephropathy

Mild
Minimal
Moderate

Note: NEPHROPATHY TGLs = 7-5
Liver

Eosinophilic Focus
Inflammation
Mixed Cell Focus

Mild
Acute, Multifocal, Minimal
Moderate

[Mixed Cell Focus TGLs = 4,5-3.1]

Lung
Mammary Gland

Infiltration Cellular
Adenocarcinoma

Histiocyte, Minimal

Note: ADENOCARC TGLs = 3-13
Skin

Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 391

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8.2			
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 5-3.1]			
Ovary		Choriocarcinoma	Metastatic (Uterus)
Note: [CHORIOCARC] TGLs = 2-8			
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 8-13			
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 4-3]			
Stomach	Glandular	Degeneration	Cystic, Minimal
Uterus		Choriocarcinoma	
Note: [CHORIOCARC] TGLs = 3-8.1			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 9-10+10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 379

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland		Adenoma	
Eye	Antr Chamber	Hemorrhage	Marked
	Cornea	Inflammation	Suppurative, Marked
Note: INFLAMMATION	TGLs = 4-13		
Note: HEMORRHAGE	TGLs = 3-13		
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 2-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Zymbal's Gland	Bilateral	Carcinoma	
Note: CARCINOMA	TGLs = 5,6-10.1+10.2		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Clitoral Gland		Adenoma Carcinoma	
Note: CARCINOMA TGLs = 1-8.1			
Kidney		Karyomegaly Nephropathy	Minimal Moderate
Note: NEPHROPATHY TGLs = 5-5			
Liver		Basophilic Focus Mixed Cell Focus	Minimal Mild
[Mixed Cell Focus TGLS = 3,4-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3			
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus		Fibrosis	Moderate
Note: FIBROSIS TGLs = 2-8			
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 331

TRT#: 6

DOSE: 0.007

SEX: Female

DISP: Moribund

DAY ON TEST: 364

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Islets, Pancreatic
Salivary Glands
Trachea

Bone Marrow
Intestine Large - Rectum
Lymph Node - Mandibular
Skin
Urinary Bladder

Brain
Intestine Small - Duodenum
Lymph Node - Mesenteric
Spleen
Uterus

Esophagus
Intestine Small - Ileum
Mammary Gland
Stomach - Forestomach

OBSERVATIONS

Adrenal Gland
Clitoral Gland

Cortex

Vacuolization Cytoplasmic
Adenoma
Inflammation

Focal, Mild
Suppurative, Marked

Note: INFLAMMATION TGLs = 1-8.1

Note: ADENOMA TGLs = 1-8.1

Heart

Note: MINERALIZATION TGLs = 4-3

Mineralization

Marked

Intestine Large

Note: MINERALIZATION TGLs = 11-7

Colon

Mineralization

Mild

Intestine Small

Jejunum

Adenocarcinoma

Jejunum, Muscularis

Mineralization

Mild

Note: ADENOCARC TGLs = 9-6

Note: MINERALIZATION TGLs = 12-6

Kidney

Karyomegaly
Nephropathy

Minimal
Marked

Note: NEPHROPATHY TGLs = 2,3-5

Liver

Eosinophilic Focus
Inflammation

Mild
Granulomatous, Multifocal, Minimal

Lung

Artery

Mineralization

Moderate

Nose

Inflammation

Suppurative, Mild

Ovary

Bilateral, Periovarn Tiss

Cyst

Pancreas

Artery

Mineralization

Moderate

Parathyroid Gland

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 6-2

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 331	TRT#: 6 DOSE: 0.007	SEX: Female DISP: Moribund	DAY ON TEST: 364 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Marked
Note: ANGIECTASIS TGLs = 8-2 Note: ADENOMA TGLs = 7-2			
Stomach	Glandular	Mineralization	Marked
Note: MINERALIZATION TGLs = 10-6			
Thymus	Epithel Cell	Hyperplasia	Mild
Thyroid Gland		Ultimobranchial Cyst	
Tissue NOS		Mineralization	Marked
Note: TISSUE NOS = THORACIC AORTA. Note: MINERALIZATION TGLs = 5-3			
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 332

TRT#: 6

DOSE: 0.007

SEX: Female

DISP: Moribund

DAY ON TEST: 355

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Moderate
Clitoral Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 1-8			
Eye	Antr Chamber	Hemorrhage	Moderate
Note: INFLAMMATION TGLs = 4-13	Cornea	Inflammation	Suppurative, Marked
Note: HEMORRHAGE TGLs = 5-13			
Harderian Gland		Pigmentation	Porphyrin, Moderate
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
Note: NEPHROPATHY TGLs = 2-5		Nephropathy	Moderate
Liver		Eosinophilic Focus	Mild
Note: EOSIN FOCUS TGLs = 7-3.1			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 3-9			
Nose		Inflammation	Suppurative, Mild
Salivary Glands		Inflammation	Chronic, Moderate
Tooth	Peridont Tiss	Inflammation	Chronic Active, Moderate
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 6-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 333 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 422
DOSE: 0.007 **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 1-5			
Liver		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
[Inflammation TGLS = 2-3.1]			
[Mixed Cell Focus TGLS = 2,3-3.1]			
Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	Multifocal, Minimal
		Hyperplasia	Histiocyte, Minimal
		Infiltration Cellular	
Note: ADENOMA ARISING WITHIN HYPERPLASTIC FOCUS.			
Zymbal's Gland		Hyperplasia	Glandular, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 334	TRT#: 6	SEX: Female	DAY ON TEST: 406
	DOSE: 0.007	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Mild
	Cortex	Hyperplasia	Focal, Mild
Clitoral Gland	Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 1-8		
Intestine Large	Colon	Leukemia Mononuclear	
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Angiectasis	Mild
		Eosinophilic Focus	Mild
		Leukemia Mononuclear	
Note: [EOSIN FOCUS]	TGLs = 4-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Hemorrhage	Mild
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-3		
Urinary Bladder		Leukemia Mononuclear	
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 5-10.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 426

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS	TGLs = 4-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 2-13		
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 406

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
 Esophagus
 Intestine Large - Rectum
 Islets, Pancreatic
 Pancreas
 Stomach - Glandular
 Urinary Bladder

Adrenal Gland - Medulla
 Heart
 Intestine Small - Duodenum
 Lymph Node - Mesenteric
 Parathyroid Gland
 Thymus
 Zymbal's Gland

Bone Marrow
 Intestine Large - Cecum
 Intestine Small - Ileum
 Nose
 Salivary Glands
 Thyroid Gland

Brain
 Intestine Large - Colon
 Intestine Small - Jejunum
 Ovary
 Stomach - Forestomach
 Trachea

OBSERVATIONS

Clitoral Gland
 Kidney
 Note: NEPHROPATHY TGLs = 5-5
 Liver
 Note: MIXED CL FOCUS TGLs = 6-3.1
 Note: NECROSIS TGLs = 7-3.1
 [Mixed Cell Focus TGLS = 6-3.1]
 Lung
 Lymph Node
 Mammary Gland
 Note: FIBROADENOMA TGLs = 2-10.1
 Pituitary Gland
 Skin
 Note: SQUAM CEL CARC TGLs = 8-13
 Note: BASAL CEL CARC TGLs = 9-14
 Spleen
 Note: HEMA CELL PROL TGLs = 4-3

Alveolar Epith
 Mandibular

Adenoma
 Karyomegaly
 Nephropathy
 Eosinophilic Focus
 Hematopoietic Cell Proliferation
 Mixed Cell Focus
 Necrosis
 Hyperplasia
 Hyperplasia
 Fibroadenoma
 Cyst
 Basal Cell Carcinoma
 Squamous Cell Carcinoma
 Hematopoietic Cell Proliferation

Minimal
 Mild
 Mild
 Minimal
 Mild
 Coagulative, Multifocal, Mild
 Focal, Minimal
 Plasma Cell, Moderate
 Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 336

TRT#: 6
DOSE: 0.007

SEX: Female
DISP: Moribund

DAY ON TEST: 406
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus
Note: POLYP STROMAL TGLs = 3-8

Cervix

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 315

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Acute, Multifocal, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 3-10.1		
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation	TGLS = 2-3]		
Zymbal's Gland		Ectasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 338 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 315
DOSE: 0.007 **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Bone	Cranium	Fibrous Osteodystrophy	Moderate
	Sternum	Fibrous Osteodystrophy	Moderate
Clitoral Gland	Duct	Ectasia	Moderate
Heart		Mineralization	Moderate
Note: MINERALIZATION TGLs = 2-3			
Intestine Large	Colon	Mineralization	Moderate
Note: MINERALIZATION TGLs = 6-7			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5			
Liver		Eosinophilic Focus	Moderate
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Mild
Note: EOSIN FOCUS TGLs = 3-3.1			
Note: MIXED CL FOCUS TGLs = 3-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Artery	Mineralization	Moderate
Parathyroid Gland		Hyperplasia	Moderate
Spleen		Depletion Lymphoid	Mild
		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Mineralization	Moderate
Note: MINERALIZATION TGLs = 5-6			
Tissue NOS		Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 315

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TISSUE NOS = THORACIC AORTA.

Zymbal's Gland

Hyperplasia

Squamous, Focal, Mild

Note: [HYPERPLASIA] TGLs = 7-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 339

TRT#: 6

DOSE: 0.007

SEX: Female

DISP: Moribund

DAY ON TEST: 309

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Note: [ADENOMA] TGLs = 2-8.1

Bilateral

Adenoma

Intestine Small
Note: ADENOCARC TGLs = 7-6.1

Jejunum

Adenocarcinoma

Cystic, Mucinous

Kidney
Note: NEPHROPATHY TGLs = 5-5

Karyomegaly
Nephropathy

Minimal
Moderate

Liver
Bile Duct

Cyst
Fatty Change
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule
Necrosis

Multifocal, Minimal
Minimal
Focal, Marked

Note: IATROGENIC HEPATIC NECROSIS.

Note: NECROSIS TGLs = 4-3.1

[Hematopoietic Cell Proliferation TGLs = 3-3.1]

Lung
Spleen
Zymbal's Gland

Infiltration Cellular
Hematopoietic Cell Proliferation
Carcinoma

Histiocyte, Minimal
Moderate

Note: CARCINOMA TGLs = 6-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Clitoral Gland	Adenoma	
Note: ADENOMA TGLs = 1-8.1	Hyperplasia	Mild
Kidney	Karyomegaly	Minimal
Note: NEPHROPATHY TGLs = 3-5	Nephropathy	Marked
Liver	Degeneration	Cystic, Mild
[Eosinophilic Focus TGLS = 4-3.1]	Eosinophilic Focus	Moderate
[Mixed Cell Focus TGLS = 4-3.1]	Mixed Cell Focus	Minimal
Parathyroid Gland	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-2]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 310

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 2-8.1			
Intestine Large	Colon	Polyp Adenomatous	
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
Note: EOSIN FOCUS TGLs = 3-3.1			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 4-3]			
Thymus	Epithel Cell	Hyperplasia	Mild
Zymbal's Gland		Hyperplasia	Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 1-9		
Liver		Mixed Cell Focus	Moderate
Note: MIXED CL FOCUS	TGLs = 2-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Pituitary Gland		Cyst	
Zymbal's Gland		Hyperplasia	Glandular, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Eye
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Kidney

Hyperplasia
Karyomegaly
Nephropathy
Mixed Cell Focus
Neoplastic Nodule

Mild
Minimal
Mild
Mild

Note: NEOPLASTIC NOD TGLs = 3-3.1
[Neoplastic Nodule TGLs = 2,4-3.1]

Lung
Pituitary Gland

Pars Distalis

Infiltration Cellular
Hyperplasia

Histiocyte, Minimal
Focal, Mild

Note: [HYPERPLASIA] TGLs = 5-2

Thyroid Gland
Zymbal's Gland

C Cell

Adenoma
Carcinoma

Note: CARCINOMA TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 142

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Uterus	Zymbal's Gland

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Lung [Hemorrhage TGLS = 2-4+4.1]		Hemorrhage	Moderate
Stomach	Glandular	Erosion	Moderate
Note: EROSION TGLs = 4-6 [Ulcer TGLS = 4-6]	Glandular	Ulcer	Marked
Urinary Bladder		Dilatation	Moderate
Note: HEMORRHAGE TGLs = 1-8		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 384

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Clitoral Gland		Carcinoma	
	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 3-8			
Note: CARCINOMA TGLs = 2-8.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
Liver		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 6-3			
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

OBSERVATIONS

Kidney

Karyomegaly
Nephropathy

Minimal
Moderate

Note: NEPHROPATHY TGLs = 1-5

Liver

Angiectasis
Basophilic Focus
Degeneration
Mixed Cell Focus
Necrosis

Mild
Mild
Cystic, Minimal
Mild
Focal, Moderate

Note: IATROGENIC HEPATIC NECROSIS.
[Necrosis TGLS = 2-3.1]

Lung

Alveolar Epith

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 391

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Kidney

Karyomegaly

Minimal

Nephropathy

Mild

Liver

Eosinophilic Focus

Mild

Fatty Change

Multifocal, Minimal

Inflammation

Granulomatous, Multifocal, Minimal

Mixed Cell Focus

Mild

Lung

Alveolar Epith

Hyperplasia

Focal, Mild

Lymph Node

Mandibular

Hyperplasia

Plasma Cell, Moderate

Salivary Glands

Inflammation

Chronic, Moderate

Skin

Squamous Cell Papilloma

Note: SQ CL PAPILLOM TGLs = 2-13

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 1-10+10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Clitoral Gland		Adenoma	
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6-5			
Liver		Angiectasis	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
		Necrosis	Focal, Marked
Note: IATROGENIC HEPATIC NECROSIS.			
Note: MIXED CL FOCUS TGLs = 2,4,5-3.1			
Note: NECROSIS TGLs = 3-3.1			
[Necrosis TGLs = 2-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
Lymph Node	Renal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 8-14			
Pancreas	Acinus	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 391

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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 - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
[Eosinophilic Focus TGLs = 4,5-3.1+3.2]			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Pituitary Gland		Cyst	
Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 2-3			
Note: FIBROSIS TGLs = 3-3			
Stomach	Glandular	Degeneration	Cystic, Mild
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 8-13			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 7-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 409

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland		Adenoma	
	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 1-8		
Note: ADENOMA	TGLs = 2-8		
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3,4-5		
Liver		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Mild
Note: EOSIN FOCUS	TGLs = 5-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL	TGLs = 6-4+4.1		
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 7-2		
Spleen		Pigmentation	Hemosiderin, Moderate
Stomach	Glandular	Mineralization	Moderate
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 351

TRT#: 6

SEX: Female

DAY ON TEST: 229

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Note: [ADENOMA] TGLs = 1-8.1

Kidney
Liver

[Hepatodiaphragmatic Nodule TGLS = 4-3.1]

Lung
Spleen

[Hematopoietic Cell Proliferation TGLS = 2-3]

Adenoma

Nephropathy
Eosinophilic Focus
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule

Hyperplasia
Hematopoietic Cell Proliferation

Minimal
Mild
Minimal

Focal, Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 352

TRT#: 6

SEX: Female

DAY ON TEST: 369

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Lung	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lymph Node - Mesenteric
Pancreas	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus			

OBSERVATIONS

Clitoral Gland	Duct	Ectasia	Marked
Note: ECTASIA TGLs = 2-8			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 369

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Mammary Gland

OBSERVATIONS

Bone	Cranium	Fibrous Osteodystrophy	Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 2-8.1		
Heart		Mineralization	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
Note: DEGEN	TGLs = 6-3.1		
Note: EOSIN FOCUS	TGLs = 5-3.1		
Lung		Mineralization	Mild
Nose		Inflammation	Suppurative, Mild
Parathyroid Gland		Hyperplasia	Moderate
Stomach	Glandular	Mineralization	Marked
Thymus	Epithel Cell	Hyperplasia	Mild
Tissue NOS		Mineralization	Moderate
Note: TISSUE NOS = THORACIC AND ABDOMINAL AORTA.			
Tongue		Hyperkeratosis	Focal, Mild
	Artery	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 369

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERKERATOSIS TGLs = 4-13
Zymbal's Gland

Carcinoma
Ectasia

Minimal

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 354

TRT#: 6

SEX: Female

DAY ON TEST: 405

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Uterus

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Trachea

Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Urinary Bladder

MISSING

Bone Marrow

Thymus

OBSERVATIONS

Clitoral Gland

Duct

Adenoma

Ectasia

Moderate

Note: [ADENOMA] TGLs = 4-10.1

Kidney

Karyomegaly

Minimal

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 2-5

Liver

Inflammation

Granulomatous, Multifocal, Minimal

Thyroid Gland

C Cell

Adenoma

Zymbal's Gland

Adenoma

Note: [ADENOMA] TGLs = 3-10.2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 355

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 9-5		
Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Mild
		Necrosis	Focal, Marked
		Neoplastic Nodule	
Note: IATROGENIC HEPATIC NECROSIS.			
Note: NECROSIS	TGLs = 6-3.1		
[Eosinophilic Focus TGLS = 3,4-3.1]			
[Hepatocellular Carcinoma TGLS = 3-3.1]			
[Mixed Cell Focus TGLS = 8-3.2]			
[Necrosis TGLS = 7-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Pancreas	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland		Cyst	
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus	Cervix	Dilatation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 355

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION TGLs = 2-8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 338

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Glandular

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Skin
Urinary Bladder

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Spleen

Brain
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach

MISSING

Esophagus
Parathyroid Gland
Trachea

Heart
Salivary Glands

Lung
Thymus

Lymph Node - Mandibular
Thyroid Gland

OBSERVATIONS

Kidney

Karyomegaly
Nephropathy
Fatty Change
Mixed Cell Focus

Minimal
Moderate
Multifocal, Minimal
Mild

Liver

Inflammation
Polyp Stromal

Suppurative, Marked

Note: MIXED CL FOCUS TGLs = 1-3.1

Nose

Uterus

Note: POLYP STROMAL TGLs = 2-8

Zymbal's Gland

Note: ADENOMA TGLs = 3-10

Adenoma

PRIMARY CAUSE OF DEATH -

Animal Note: ANIMAL PARTIALLY CANNABALIZED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 357 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 327
DOSE: 0.007 **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Clitoral Gland Note: ECTASIA TGLs = 2-8	Duct	Ectasia	Moderate
Kidney		Karyomegaly	Minimal
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node Note: HYPERPLASIA TGLs = 3-9 Note: ECTASIA TGLs = 3-9	Mandibular, Sinus Mandibular	Ectasia Hyperplasia	Moderate Plasma Cell, Moderate
Tissue NOS Note: CARCINOMA TGLs = 4-13 Note: TISSUE NOS = TRIGEMINAL NERVE.		Carcinoma	Metastatic (Zymbal'S Gland)
Tooth	Peridont Tiss	Inflammation	Chronic Active, Moderate
Zymbal's Gland Note: CARCINOMA TGLs = 5-10.10 Note: ECTASIA TGLs = 6-10		Carcinoma Ectasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 358

TRT#: 6

SEX: Female

DAY ON TEST: 365

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Uterus

MISSING

Intestine Large - Rectum

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 1-8.1
Intestine Large
Kidney
Note: NEPHROPATHY TGLs = 2-5
Liver
Note: NECROSIS TGLs = 3-3.1
Lung
Thyroid Gland

Adenoma
Colon
Alveolar Epith

Adenoma
Parasite Metazoan
Karyomegaly
Nephropathy
Eosinophilic Focus
Mixed Cell Focus
Necrosis
Hyperplasia
Infiltration Cellular
Ultimobranchial Cyst
Moderate
Minimal
Marked
Moderate
Moderate
Coagulative, Multifocal, Mild
Focal, Mild
Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 359

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Parathyroid Gland Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 5-7.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 2-5			
Liver		Eosinophilic Focus	Mild
		Hepatocholangiocarcinoma	
Note: MIXED CL FOCUS TGLs = 3,4-3.1		Mixed Cell Focus	Moderate
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-13			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Note: [ADENOMA] TGLs = 1-8.1
Kidney
Note: NEPHROPATHY TGLs = 8-5
Liver

Adenoma
Karyomegaly Minimal
Nephropathy Marked
Angiectasis Mild
Eosinophilic Focus Mild
Hematopoietic Cell Proliferation Minimal
Hepatodiaphragmatic Nodule
Mixed Cell Focus Minimal

Note: MIXED CL FOCUS TGLs = 4,5-3.1
[Eosinophilic Focus TGLs = 6-3.1]
[Hematopoietic Cell Proliferation TGLs = 7-3.1]
[Mixed Cell Focus TGLs = 4-3.1]

Lung Alveolar Epith

Hyperplasia Focal, Minimal
Infiltration Cellular Histiocyte, Minimal
Squamous Cell Papilloma

Pharynx
Note: SQ CL PAPILOM TGLs = 3-12.1

Pituitary Gland Pars Distalis

Adenoma

Note: ADENOMA TGLs = 2-2

Thymus Epithel Cell

Hyperplasia Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Uterus

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Thyroid Gland
Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Adrenal Gland
Kidney

Cortex

Vacuolization Cytoplasmic
Karyomegaly
Nephropathy
Eosinophilic Focus
Hematopoietic Cell Proliferation
Mixed Cell Focus
Neoplastic Nodule

Focal, Mild
Minimal
Mild
Mild
Minimal
Mild
Multiple

Note: MIXED CL FOCUS TGLs = 6-3.1+3.2

Note: NEOPLASTIC NOD TGLs = 4,5-3.1+3.2

Lung
Lymph Node
Skin

Alveolar Epith
Mandibular

Hyperplasia
Hyperplasia
Basal Cell Adenoma

Focal, Minimal
Plasma Cell, Moderate

Note: [BASAL CEL ADEN] TGLs = 1-13

Spleen

Note: HEMA CELL PROL TGLs = 2-3

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 390

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 2-8.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
[Hematopoietic Cell Proliferation TGLS = 5-3.1]			
Lymph Node	Inguinal	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA	TGLs = 1-13		
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-3]			
Stomach	Glandular	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 405

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Clitoral 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	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

MISSING

Bone Marrow	Zymbal's Gland
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OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver	Bile Duct	Cyst	
		Eosinophilic Focus	Mild
Note: EOSIN FOCUS TGLs = 2-3.1 [Eosinophilic Focus TGLS = 1-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Focal, Minimal
	Mediastinum	Sarcoma	Metastatic (Skeletal Muscle)
Skeletal Muscle		Sarcoma	
Note: SARCOMA TGLs = 3-13			
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Blood		Anemia	
Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8.1			
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 7-5			
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
Note: DEGEN TGLs = 5,6-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Interstitial	Inflammation	Minimal
	Mediastinal	Hemorrhage	Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
		Fibroadenoma	
Mammary Gland			
Note: FIBROADENOMA TGLs = 8-13			
Pharynx		Hyperplasia	Focal, Moderate
Note: HYPERPLASIA TGLs = 4-12+12.1			
Pituitary Gland		Cyst	
Note: CYST TGLs = 3-2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Marked
Thymus	Epithel Cell	Hyperplasia	Mild
Urinary Bladder		Sarcoma Stromal	Metastatic (Uterus)
Uterus		Sarcoma Stromal	

Note: [SARC STROMAL] TGLs = 2-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 338

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1,2-8.1		
Note: LARGE CARCINOMA WITH EXTENSION TO BOTH GLANDS.			
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Polyp Adenomatous	
Note: POLYP ADENOMAT	TGLs = 6-7		
Kidney		Karyomegaly	Minimal
Note: NEPHROPATHY	TGLs = 4-5	Nephropathy	Moderate
Liver		Hematopoietic Cell Proliferation	Minimal
Note: MIXED CL FOCUS	TGLs = 5-3.1	Mixed Cell Focus	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Pituitary Gland		Angiectasis	Mild
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 3-3		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8			
Kidney		Karyomegaly	Minimal
Note: NEPHROPATHY TGLs = 2-5		Nephropathy	Marked
Liver		Angiectasis	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 4-3.1			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Spleen		Fibrosis	Focal, Moderate
Note: FIBROSIS TGLs = 3-3			
Zymbal's Gland		Adenoma	
		Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 383

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Brain

Note: CARCINOMA TGLs = 1-1
[Carcinoma TGLS = 1-1]

Brain Stem

Carcinoma
Hemorrhage

Metastatic (Zymbal'S Gland)
Moderate

Kidney

Karyomegaly
Nephropathy
Degeneration
Eosinophilic Focus

Minimal
Mild
Cystic, Mild
Mild

Liver

Note: DEGEN TGLs = 4-3.1

Lung

Infiltration Cellular
Inflammation
Hyperplasia

Histiocyte, Minimal
Minimal
Plasma Cell, Moderate

Lymph Node

Interstitialium
Mandibular

Note: HYPERPLASIA TGLs = 3-9

Pharynx

Note: SQ CL PAPILOM TGLs = 2-13

Zymbal's Gland

Note: CARCINOMA TGLs = 5-10.1

Squamous Cell Papilloma

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Uterus	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex	Angiectasis	Minimal
Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-8.1			
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Degeneration	Chronic, Minimal
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 3-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 2-3			
Urinary Bladder		Dilatation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 422

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Clitoral 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	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 3,4-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
Note: PIGMENT TGLs = 2-13			
Pharynx		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 6-12.1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-3			
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 425

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Bone Marrow		Atrophy	Moderate
		Hemorrhage	Moderate
Clitoral Gland		Hyperplasia	Squamous, Focal, Moderate
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 1-3.1			
Lung	Interstitial	Inflammation	Marked
		Metaplasia	Squamous, Mild
Note: INFLAMMATION TGLs = 5-4+4.1			
Lymph Node	Mandibular	Hemorrhage	Mild
	Mediastinal	Hemorrhage	Mild
	Mesenteric	Hemorrhage	Moderate
	Mediastinal, Sinus	Infiltration Cellular	Histiocyte, Moderate
Note: HEMORRHAGE TGLs = 2-7			
Note: HEMORRHAGE TGLs = 6-13			
Pharynx		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-12.1			
Spleen		Fibrosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 370

TRT#: 6
DOSE: 0.007

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 425
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 3,4-3
Zymbal's Gland

Bilateral

Adenoma
Hypertrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 268

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Kidney
Liver

Lung
Lymph Node

Note: HYPERPLASIA TGLs = 1-9

Note: HYPERPLASIA TGLs = 1-9

Skin
Zymbal's Gland

Note: CARCINOMA TGLs = 2-10.1

Mandibular
Mandibular

Hair Follicle

Adenoma
Nephropathy
Basophilic Focus
Mixed Cell Focus
Infiltration Cellular
Hyperplasia
Hyperplasia

Hyperplasia
Carcinoma

Minimal
Minimal
Mild
Histiocyte, Minimal
Plasma Cell, Mild
Lymphoid, Mild

Basal Cell, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 425

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Intestine Large
Note: POLYP ADENOMAT TGLs = 4-7.1

Colon

Polyp Adenomatous

Kidney
Note: NEPHROPATHY TGLs = 2-5

Karyomegaly
Nephropathy

Minimal
Moderate

Liver
Note: MIXED CL FOCUS TGLs = 3-3.1+3.2+3.3
Note: NEOPLASTIC NOD TGLs = 3-3.3

Basophilic Focus
Eosinophilic Focus
Mixed Cell Focus
Neoplastic Nodule

Moderate
Mild
Moderate
Multiple

Lung
Pituitary Gland
Skin
Note: BASAL CEL ADEN TGLs = 1-13

Alveolar Epith

Hyperplasia
Cyst
Basal Cell Adenoma

Multifocal, Mild

Zymbal's Gland
Bilateral

Adenoma
Hypertrophy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 373 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 425
DOSE: 0.007 **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
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	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Clitoral Gland	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 1-8			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Pituitary Gland		Cyst	
Note: CYST TGLs = 7-2			
Skin		Squamous Cell Carcinoma	Multiple
		Squamous Cell Papilloma	Multiple
Note: SQ CL PAPILOM TGLs = 5-13			
Note: SQUAM CEL CARC TGLs = 6,8-14+15			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-3			
Thymus	Epithel Cell	Hyperplasia	Mild
Thyroid Gland		Ultimobranchial Cyst	
Zymbal's Gland		Hyperplasia	Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 425

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Hyperplasia	Focal, Mild
Note: ANGIECTASIS	TGLs = 4-2		
Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA	TGLs = 2,3-8.1		
Intestine Large	Rectum	Polyp Adenomatous	
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Minimal
Note: DEGEN	TGLs = 7-3.2		
Note: MIXED CL FOCUS	TGLs = 7-3.1+3.2		
Note: EOSIN FOCUS	TGLs = 7-3.1+3.2		
Lung		Infiltration Cellular	Histiocyte, Minimal
Skin	Sebaceous GI	Carcinoma	
Note: [CARCINOMA]	TGLs = 1-13		
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 5-3		
Thymus	Epithel Cell	Hyperplasia	Mild
Zymbal's Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 425

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 426

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 2-8

Kidney

Liver

Note: DEGEN TGLs = 4-3.1
[Mixed Cell Focus TGLS = 4-3.1]

Mammary Gland

Note: FIBROADENOMA TGLs = 1,3-10.1+13

Adenoma

Karyomegaly
Nephropathy
Degeneration
Mixed Cell Focus

Fibroadenoma

Minimal
Mild
Cystic, Mild
Moderate

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 338

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
 Note: NEPHROPATHY TGLs = 4-5
Liver

Cardiomyopathy
Nephropathy

Minimal
Marked

Eosinophilic Focus
Fatty Change
Hepatodiaphragmatic Nodule
Inflammation

Minimal
Multifocal, Minimal
Granulomatous, Multifocal, Minimal

 Note: ANOM HEPAT LOB TGLs = 3-3.1
 [Hepatodiaphragmatic Nodule TGLS = 2-3.1]

Lung
 Interstitialium

Infiltration Cellular
Inflammation
Carcinoma

Histiocyte, Minimal
Minimal

Zymbal's Gland
 Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 425

DOSE: 0.007

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	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
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Brain		Astrocytoma Malignant	
Clitoral Gland	Duct	Ectasia	Moderate
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: EOSIN FOCUS	TGLs = 2-3.1		
Note: MIXED CL FOCUS	TGLs = 2,3-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
Pharynx		Squamous Cell Carcinoma	
Note: [SQUAM CEL CARC]	TGLs = 5,6-12.1		
Pituitary Gland		Angiectasis	Mild
Thymus	Epithel Cell	Hyperplasia	Mild
Uterus	Endometrium	Cyst	
Note: CYST	TGLs = 4-8		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 363

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	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
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain	Brain Stem	Compression	Mild
Clitoral Gland	Bilateral	Adenoma	
Note: [ADENOMA] TGLs = 2-8.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 7-5			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,8,9-6.1+7+9			
Mammary Gland		Adenocarcinoma	
Ovary	Periovarn Tiss	Cyst	
Pharynx		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 4-13			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-2			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 378

TRT#: 6
DOSE: 0.007

SEX: Female
DISP: Moribund

DAY ON TEST: 363
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach
Zymbal's Gland
Note: ADENOMA TGLs = 11-10

Glandular

Erosion
Adenoma

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 320

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Intestine Small - Ileum
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum
Ovary
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Colon
Islets, Pancreatic
Pancreas
Spleen
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Brain
Clitoral Gland
 Note: [ADENOMA] TGLs = 2-8.1
Eye
 Note: INFLAMMATION TGLs = 1-13
Intestine Large
Kidney
 Note: NEPHROPATHY TGLs = 5-5
Liver
 Note: MIXED CL FOCUS TGLs = 4-3.1
 Note: EOSIN FOCUS TGLs = 4-3.1
Lymph Node
 Note: HYPERPLASIA TGLs = 3-9
 [Hyperplasia TGLS = 7-7]
Nose

Pituitary Gland
Tissue NOS
 Note: TISSUE NOS = TRIGEMINAL NERVE.

Cornea
Rectum

Mesenteric
Mandibular

Olfactory Epi

Carcinoma
Adenoma

Inflammation

Parasite Metazoan
Nephropathy

Eosinophilic Focus
Mixed Cell Focus

Atrophy
Hyperplasia

Carcinoma
Hyperplasia
Inflammation
Carcinoma
Carcinoma

Metastatic (Zymbal'S Gland)

Suppurative, Marked

Minimal
Moderate

Mild
Mild

Moderate
Plasma Cell, Marked

Metastatic (Zymbal'S Gland)
Focal, Minimal
Suppurative, Minimal
Metastatic (Zymbal'S Gland)
Metastatic (Zymbal'S Gland)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 320

DOSE: 0.007

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 8-14

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 388

DOSE: 0.007

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Clitoral Gland
Kidney
Liver

Adenoma
Nephropathy
Eosinophilic Focus
Hematopoietic Cell Proliferation

Moderate
Mild
Minimal

Note: EOSIN FOCUS TGLs = 1-3.1

Lung
Lymph Node
Skin

Mandibular

Infiltration Cellular
Hyperplasia
Basal Cell Carcinoma

Histiocyte, Minimal
Plasma Cell, Moderate

Note: BASAL CEL CARC TGLs = 4-10+13

Spleen
Stomach
Zymbal's Gland

Glandular

Hematopoietic Cell Proliferation
Degeneration
Carcinoma

Moderate
Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 456	TRT#: 8 DOSE: 0.015	SEX: Female DISP: Moribund	DAY ON TEST: 254 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Kidney		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
Tissue NOS		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA	TGLs = 2-13		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 3-10.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 462

TRT#: 8

SEX: Female

DAY ON TEST: 229

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Eosinophilic Focus
Mixed Cell Focus

Minimal
Mild
Minimal
Minimal
Plasma Cell, Moderate

Lymph Node
Pharynx

Mandibular

Hyperplasia
Squamous Cell Papilloma

Note: SQ CL PAPILOM TGLs = 1-3

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 3-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 463

TRT#: 8

SEX: Female

DAY ON TEST: 355

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Kidney

Note: NEPHROPATHY TGLs = 3-5
Liver

Lung
Lymph Node
Nose
Zymbal's Gland

Note: CARCINOMA TGLs = 1-10.1

Adenoma
Karyomegaly
Nephropathy

Eosinophilic Focus
Neoplastic Nodule
Infiltration Cellular
Hemorrhage
Hemorrhage
Adenoma
Carcinoma

Minimal
Moderate

Mild

Histiocyte, Minimal
Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 142

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Moderate
Kidney		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 2-5			
Liver		Congestion	Mild
		Hemorrhage	Moderate
Note: CONGESTION TGLs = 3-3.1			
Note: HEMORRHAGE TGLs = 3-3.1			
Lung		Congestion	Marked
		Hemorrhage	Moderate
[Congestion TGLs = 4-4+4.1]			
[Hemorrhage TGLs = 4-4+4.1]			
Lymph Node	Mandibular	Hemorrhage	Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST TGLs = 1-8			
Thymus		Hemorrhage	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 465

TRT#: 8

SEX: Female

DAY ON TEST: 355

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Heart
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Spleen
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Uterus

Brain
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Skin
Trachea

MISSING

Thymus

OBSERVATIONS

Adrenal Gland
Clitoral Gland
Intestine Large
Note: POLYP ADENOMAT TGLs = 3-7.1
Kidney
Note: NEPHROPATHY TGLs = 2-5
Liver
Lung
Lymph Node
Stomach
Zymbal's Gland
Note: CARCINOMA TGLs = 1-10+10.1

Cortex
Colon
Mandibular
Glandular

Vacuolization Cytoplasmic
Adenoma
Polyp Adenomatous
Karyomegaly
Nephropathy
Eosinophilic Focus
Inflammation
Infiltration Cellular
Hyperplasia
Degeneration
Carcinoma

Focal, Mild
Minimal
Moderate
Mild
Suppurative, Multifocal, Minimal
Histiocyte, Minimal
Plasma Cell, Moderate
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 466

TRT#: 8

SEX: Female

DAY ON TEST: 280

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Brain

Clitoral Gland

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Ovary

Pancreas

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Bone Marrow

Hyperplasia

Mild

Intestine Large

Colon

Parasite Metazoan

Kidney

Karyomegaly

Minimal

Liver

Nephropathy

Mild

Basophilic Focus

Mild

Eosinophilic Focus

Mild

Fatty Change

Multifocal, Minimal

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 2-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 467

TRT#: 8

SEX: Female

DAY ON TEST: 341

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Esophagus
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	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Brain		Carcinoma	Metastatic (Zymbal'S Gland)
[Carcinoma TGLS = 2-1]			
Clitoral Gland	Bilateral	Adenoma	
Note: [ADENOMA] TGLs = 1-10.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Nose		Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 3-10.2			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 468

TRT#: 8

SEX: Female

DAY ON TEST: 421

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-3.1		
Liver		Inflammation	Granulomatous, Multifocal, Mild
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS	TGLs = 3-3.1		
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Adenocarcinoma	
Mammary Gland			
Note: ADENOCARC	TGLs = 1-13		
Pituitary Gland		Cyst	
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 7-14		
Tongue		Hyperkeratosis	Focal, Mild
Note: HYPERKERATOSIS	TGLs = 8-15		
Zymbal's Gland		Adenoma	
		Carcinoma	
Note: CARCINOMA	TGLs = 6-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 469

TRT#: 8

SEX: Female

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8.1

Kidney

Liver

[Eosinophilic Focus TGLS = 2-3.1]

Spleen

Zymbal's Gland
Note: CARCINOMA TGLs = 3-10

Carcinoma

Karyomegaly

Nephropathy

Eosinophilic Focus

Hematopoietic Cell Proliferation

Mixed Cell Focus

Hematopoietic Cell Proliferation

Carcinoma

Minimal

Mild

Moderate

Minimal

Moderate

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 470

TRT#: 8

SEX: Female

DAY ON TEST: 265

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Esophagus
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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Clitoral Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 5-8			
Kidney		Karyomegaly	Minimal
		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 4-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Marked
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 2-9			
Note: HYPERPLASIA TGLs = 3-9			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 471

TRT#: 8

SEX: Female

DAY ON TEST: 343

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
 Clitoral Gland
 Intestine Large - Colon
 Intestine Small - Jejunum
 Nose
 Pituitary Gland
 Stomach - Glandular
 Trachea

Adrenal Gland - Medulla
 Esophagus
 Intestine Large - Rectum
 Islets, Pancreatic
 Ovary
 Salivary Glands
 Thymus
 Urinary Bladder

Bone Marrow
 Heart
 Intestine Small - Duodenum
 Lymph Node - Mesenteric
 Pancreas
 Spleen
 Thyroid Gland
 Uterus

Brain
 Intestine Large - Cecum
 Intestine Small - Ileum
 Mammary Gland
 Parathyroid Gland
 Stomach - Forestomach
 Tongue

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 1-3.1]			
Lung	Interstitial	Inflammation	Minimal
Lymph Node	Mandibular, Sinus	Ectasia	Mild
	Mandibular	Hyperplasia	Plasma Cell, Mild
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 2-10.1			
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 472 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 421
DOSE: 0.015 **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Mammary Gland Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Clitoral Gland		Adenoma	
		Carcinoma	
Note: CARCINOMA TGLs = 1,2-8.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Degeneration	Cystic, Mild
		Hematocyst	
		Inflammation	Granulomatous, Multifocal, Minimal
		Leukemia Mononuclear	
Note: DEGEN TGLs = 3,4-3.1			
Note: HEMATOCYST TGLs = 4-3.1			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
Spleen		Leukemia Mononuclear	
Zymbal's Gland		Hyperplasia	Squamous, Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 473

TRT#: 8

SEX: Female

DAY ON TEST: 264

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	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	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Minimal
Lung	Interstitial	Inflammation	Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Zymbal's Gland		Carcinoma	

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 474 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 406
DOSE: 0.015 **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Moderate
		Neoplastic Nodule	
Note: HYPERPLASIA	TGLs = 2-3.1		
Note: NEOPLASTIC NOD	TGLs = 2-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 4-13		
Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus	Epithel Cell	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	
		Hypertrophy	Minimal
Note: CARCINOMA	TGLs = 3-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 475

TRT#: 8

SEX: Female

DAY ON TEST: 343

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland	Duct	Ectasia	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 2-5			
Liver		Angiectasis	Mild
		Hyperplasia	Reticulum Cell, Mild
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 1-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Nose		Inflammation	Suppurative, Moderate
Pharynx		Squamous Cell Carcinoma	
Note: [SQUAM CEL CARC] TGLs = 3-13			
Stomach	Glandular	Degeneration	Cystic, Minimal
Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 4-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:48

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 476

TRT#: 8

DOSE: 0.015

SEX: Female

DISP: Moribund

DAY ON TEST: 391

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8.1

Kidney
Note: NEPHROPATHY TGLs = 3-5

Liver
[Hematopoietic Cell Proliferation TGLS = 4-3.1]

Lung
Lymph Node
Note: HYPERPLASIA TGLs = 6-14
Note: HYPERPLASIA TGLs = 5-13

Skin
Note: SQUAM CEL CARC TGLs = 7-15

Spleen
[Hematopoietic Cell Proliferation TGLS = 2-3]

Stomach
Glandular

Carcinoma

Karyomegaly Minimal
Nephropathy Moderate

Degeneration Cystic, Mild
Eosinophilic Focus Mild
Hematopoietic Cell Proliferation Minimal
Mixed Cell Focus Mild

Hyperplasia Focal, Mild
Hyperplasia Plasma Cell, Mild
Hyperplasia Plasma Cell, Mild

Squamous Cell Carcinoma

Hematopoietic Cell Proliferation Marked

Degeneration Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 477

TRT#: 8

SEX: Female

DAY ON TEST: 341

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	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	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland	Mammary Gland	Thymus
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OBSERVATIONS

Bone Marrow		Atrophy	Moderate
		Hemorrhage	Moderate
Heart			
Note: POSTMORTEM CLOT IN ATRIUM OF HEART.			
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5			
Liver		Eosinophilic Focus	Mild
Lung		Congestion	Moderate
		Edema	Mild
		Foreign Body	Minimal
	Alveolus, Peribronchiolr	Inflammation	Suppurative, Mild
	Bronchiole	Inflammation	Suppurative, Mild
Note: CONGESTION TGLs = 2-4+4.1			
Nose		Foreign Body	Moderate
		Inflammation	Suppurative, Marked
Parathyroid Gland		Hyperplasia	Mild
Spleen	Red Pulp	Atrophy	Moderate
Thyroid Gland		Ultimobranchial Cyst	
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 477

TRT#: 8
DOSE: 0.015

SEX: Female
DISP: Dead

DAY ON TEST: 341
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 478

TRT#: 8

SEX: Female

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 4-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 3-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 296

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: CARCINOMA			
TGLs = 1-8.1			
Note: [ADENOMA]			
TGLs = 1-8.1			
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY			
TGLs = 2-5			
Liver		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 5-3.1]			
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Stomach	Glandular	Degeneration	Cystic, Minimal
Zymbal's Gland		Carcinoma	
		Hypertrophy	Minimal
Note: CARCINOMA			
TGLs = 3-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 480

TRT#: 8

SEX: Female

DAY ON TEST: 336

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Mammary Gland

OBSERVATIONS

Clitoral Gland		Inflammation	Suppurative, Moderate
Intestine Large	Cecum	Edema	Moderate
	Rectum	Parasite Metazoan	Mild
Note: EDEMA	TGLs = 6-7		
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Moderate
Note: EOSIN FOCUS	TGLs = 7-3.1		
Lymph Node	Mesenteric	Atrophy	Moderate
Pituitary Gland		Cyst	
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 3-10.2		
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 4-3		
Stomach	Glandular	Erosion	Multifocal, Mild
Note: EROSION	TGLs = 5-6		
Thymus		Depletion Lymphoid	Moderate
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 481

TRT#: 8

SEX: Female

DAY ON TEST: 421

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

MISSING

Parathyroid Gland

Thymus

OBSERVATIONS

Kidney

Karyomegaly
Nephropathy
Degeneration
Mixed Cell Focus

Minimal
Moderate
Cystic, Minimal
Moderate

Liver

[Degeneration TGLS = 1-3.1]
[Mixed Cell Focus TGLS = 1-3.1]

Lung
Skin

Alveolar Epith

Hyperplasia
Cyst Epithelial Inclusion

Multifocal, Minimal

Note: CYST EPITH INC TGLs = 2-13

Zymbal's Gland

Adenoma

Note: ADENOMA TGLs = 3-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 482

TRT#: 8

SEX: Female

DAY ON TEST: 315

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 1-8

Kidney

Liver
Lymph Node
Note: HYPERPLASIA TGLs = 2-9

Stomach
Thyroid Gland
Zymbal's Gland
Note: CARCINOMA TGLs = 3-10.1

Mandibular

Glandular

Adenoma

Karyomegaly
Nephropathy
Eosinophilic Focus
Hyperplasia

Degeneration
Ultimobranchial Cyst
Carcinoma

Minimal
Moderate
Mild
Plasma Cell, Moderate

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 483

TRT#: 8

SEX: Female

DAY ON TEST: 421

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Clitoral Gland
Note: [ADENOMA] TGLs = 1-8.1
Kidney

Note: NEPHROPATHY TGLs = 4-5
Liver

Note: MIXED CL FOCUS TGLs = 2,3-3.1
Lung
Zymbal's Gland

Adenoma

Karyomegaly
Nephropathy

Inflammation
Mixed Cell Focus

Hyperplasia
Carcinoma

Minimal
Moderate

Granulomatous, Multifocal, Minimal
Moderate

Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 484

TRT#: 8

SEX: Female

DAY ON TEST: 391

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 2-8.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS	TGLs = 4-3.1		
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Skin		Acanthosis	Moderate
		Cyst Epithelial Inclusion	
		Squamous Cell Papilloma	
Note: CYST EPITH INC	TGLs = 5-13		
Note: ACANTHOSIS	TGLs = 5-13		
Note: SQ CL PAPILOM	TGLs = 1-14		
Spleen		Hematopoietic Cell Proliferation	Moderate
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 7-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:48
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 485

TRT#: 8

SEX: Female

DAY ON TEST: 315

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Esophagus
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	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Clitoral Gland		Adenoma	
		Carcinoma	
Note: COLLISION CLITORAL GLAND CARCINOMAS.			
Note: CARCINOMA TGLs = 1-8.1			
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Moderate
Note: MIXED CL FOCUS TGLs = 3-3.1			
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Note: HEMORRHAGE TGLs = 4-4+4.1			
Lymph Node	Mandibular	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 2-9			
Pituitary Gland		Cyst	
Zymbal's Gland		Carcinoma	
Note: [CARCINOMA] TGLs = 5-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 486

TRT#: 8

SEX: Female

DAY ON TEST: 377

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lung			
Note: INFILTRAT CELL	TGLs = 4-4+4.1		
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC	TGLs = 1-8.1		
Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus		Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 487

TRT#: 8

SEX: Female

DAY ON TEST: 421

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 7-5		
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
[Eosinophilic Focus TGLS = 4-3.1]			
[Mixed Cell Focus TGLS = 4,5,6-3.1]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Minimal
Mammary Gland		Adenocarcinoma	Multiple
Note: [ADENOCARC]	TGLs = 3,8-13+14		
Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 488

TRT#: 8

SEX: Female

DAY ON TEST: 390

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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 - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Liver		Cyst	
		Hematopoietic Cell Proliferation	Minimal
	[Hematopoietic Cell Proliferation TGLS = 4-3.2]		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Skin		Basal Cell Adenoma	
		Squamous Cell Carcinoma	
	Note: SQUAM CEL CARC TGLs = 6-12+12.1		
	Note: BASAL CEL ADEN TGLs = 5-13		
Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 3-3]		
Stomach	Glandular	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 489

TRT#: 8

SEX: Female

DAY ON TEST: 338

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Moderate
[Eosinophilic Focus TGLS = 3-3.1]			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 2-10.1		
Stomach	Glandular	Degeneration	Cystic, Minimal
	Forestomach	Inflammation	Chronic, Minimal
Tongue		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 5-13		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 490

TRT#: 8

SEX: Female

DAY ON TEST: 296

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Trachea

Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Bone Marrow
Clitoral Gland
Note: CARCINOMA TGLs = 1-8.1

Kidney

Liver
Pituitary Gland
Note: ANGIECTASIS TGLs = 4-2

Thyroid Gland C Cell
Zymbal's Gland

Note: CARCINOMA TGLs = 2-10.1
Note: ONE ZYMBAL'S GLAND LARGE BUT OTHERWISE NORMAL.
Note: HYPERTROPHY TGLs = 5-10

Hyperplasia
Carcinoma

Karyomegaly
Nephropathy
Eosinophilic Focus
Angiectasis

Adenoma
Carcinoma
Hypertrophy

Moderate

Minimal
Mild
Mild
Mild

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 491	TRT#: 8	SEX: Female	DAY ON TEST: 422
	DOSE: 0.015	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney	Renal Tubule	Adenoma	
		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Minimal
Note: MIXED CL FOCUS	TGLs = 4-3.1		
Note: EOSIN FOCUS	TGLs = 4-3.1		
Lung		Squamous Cell Carcinoma	Metastatic (Pharynx)
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Pharynx		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 6-12.1		
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-13		
Uterus	Endometrium	Hyperplasia	Papillary, Moderate
		Thrombosis	Marked
Note: THROMBUS	TGLs = 3-8		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 492	TRT#: 8	SEX: Female	DAY ON TEST: 405
	DOSE: 0.015	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Clitoral Gland		Adenoma	
		Carcinoma	
Intestine Large	Rectum	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 5-7			
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC TGLs = 6-6			
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Minimal
Note: EOSIN FOCUS TGLs = 7-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
Nose		Hemorrhage	Mild
Zymbal's Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 1,2-10+10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 493

TRT#: 8

SEX: Female

DAY ON TEST: 422

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 10-5		
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
Note: EOSIN FOCUS	TGLs = 7-3.1		
Note: DEGEN	TGLs = 8,9-3.1		
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Pharynx		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 13-12.1		
Skin		Basal Cell Adenoma	Multiple
		Cyst Epithelial Inclusion	
		Inflammation	Chronic Active, Marked
		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 14-12		
Note: INFLAMMATION	TGLs = 5-16		
Note: BASAL CEL ADEN	TGLs = 2,3,4-13+14+15		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 493

TRT#: 8

SEX: Female

DAY ON TEST: 422

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST EPITH INC TGLs = 5-16

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 494

TRT#: 8

SEX: Female

DAY ON TEST: 295

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Esophagus	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
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Bone Marrow		Atrophy	Mild
		Hemorrhage	Mild
Brain		Carcinoma	Metastatic (Zymbal'S Gland)
Clitoral Gland	Duct	Ectasia	Moderate
Eye	Cornea	Inflammation	Suppurative, Marked
Note: INFLAMMATION	TGLs = 3-13		
Harderian Gland		Pigmentation	Porphyrin, Marked
Heart	Mitral Valve	Inflammation	Suppurative, Mild
Kidney	Medulla	Inflammation	Suppurative, Moderate
		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Eosinophilic Focus	Mild
Lymph Node	Mediastinal	Hemorrhage	Moderate
Tissue NOS		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA	TGLs = 4-14		
Note: TISSUE NOS = TRIGEMINAL NERVE.			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 5-10.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 495

TRT#: 8

SEX: Female

DAY ON TEST: 406

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

MISSING

Bone Marrow

OBSERVATIONS

Kidney

Karyomegaly
Nephropathy

Minimal
Marked

Note: NEPHROPATHY TGLs = 2-5

Liver

Mixed Cell Focus

Moderate

Note: MIXED CL FOCUS TGLs = 3-3.1

Lung

Alveolar/Bronchiolar Adenoma
Infiltration Cellular

Histiocyte, Minimal

Note: ALV BRON ADEN TGLs = 4-4

Skin

Squamous Cell Papilloma

Note: SQ CL PAPILLOM TGLs = 6-13

Spleen

Hematopoietic Cell Proliferation

Moderate

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 5-10+10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 496

TRT#: 8

SEX: Female

DAY ON TEST: 264

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Nose
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Stomach - Forestomach
Trachea

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Bone Marrow
Kidney

Liver
 Note: MIXED CL FOCUS TGLs = 3-3.1
Pituitary Gland
Salivary Glands
Skin
 Note: SQ CL PAPILOM TGLs = 2-10.2
Zymbal's Gland
 Note: CARCINOMA TGLs = 1-10.1

Hyperplasia
Karyomegaly
Nephropathy
Mixed Cell Focus

Cyst
Inflammation
Squamous Cell Papilloma

Carcinoma

Mild
Minimal
Mild
Mild

Chronic, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 497

TRT#: 8

SEX: Female

DAY ON TEST: 426

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 2-8		
Ear	Canal	Squamous Cell Papilloma	
	Pinna	Ulcer	Marked
Note: SQ CL PAPILOM	TGLs = 11-14		
Note: ULCER	TGLs = 12-15		
Intestine Large	Rectum	Parasite Metazoan	Minimal
	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT	TGLs = 3-7.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Moderate
		Necrosis	Focal, Marked
Note: IATROGENIC HEPATIC NECROSIS.			
[Degeneration TGLS = 9-3.1]			
[Hepatodiaphragmatic Nodule TGLS = 8-3.1]			
[Mixed Cell Focus TGLS = 7,9-3.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 497

TRT#: 8

SEX: Female

DAY ON TEST: 426

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 10-3.1]

Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Multifocal, Minimal Histiocyte, Minimal
Pharynx		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 6-12.1			
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-10.1			
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 5-13			
Zymbal's Gland		Carcinoma Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 498

TRT#: 8

SEX: Female

DAY ON TEST: 378

DOSE: 0.015

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Clitoral 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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Bone	Cranium	Fibrous Osteodystrophy	Moderate
Bone Marrow		Atrophy	Moderate
		Hemorrhage	Moderate
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS	TGLs = 2-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL	TGLs = 3-4.1		
Spleen	Red Pulp	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:49

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 499

TRT#: 8

SEX: Female

DAY ON TEST: 370

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Uterus

MISSING

Thymus

OBSERVATIONS

Clitoral Gland
Note: [ADENOMA] TGLs = 1-8.1

Kidney
Note: NEPHROPATHY TGLs = 4-5

Liver
[Mixed Cell Focus TGLS = 3-3.1]

Lung
Nose
Pharynx
Note: SQUAM CEL CARC TGLs = 2-13

Stomach

Glandular

Adenoma

Karyomegaly
Nephropathy

Inflammation
Mixed Cell Focus

Alveolar/Bronchiolar Adenoma
Inflammation
Squamous Cell Carcinoma

Degeneration

Minimal
Marked

Granulomatous, Multifocal, Minimal
Moderate

Suppurative, Moderate

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:49

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 500

TRT#: 8

DOSE: 0.015

SEX: Female

DISP: Moribund

DAY ON TEST: 406

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 7-8.1		
Intestine Small	Ileum	Adenocarcinoma	Mucinous
Note: ADENOCARC	TGLs = 5-6		
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Moderate
		Mixed Cell Focus	Moderate
Note: MIXED CL FOCUS	TGLs = 2-3.1		
Note: EOSIN FOCUS	TGLs = 2-3.1		
Note: DEGEN	TGLs = 1-3.1		
Lung		Carcinoma	Metastatic (Clitoral Gland)
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Cyst	
Skin	Sebaceous GI	Adenoma	
Note: [ADENOMA]	TGLs = 6-13		
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 3-3		
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 500

TRT#: 8
DOSE: 0.015

SEX: Female
DISP: Moribund

DAY ON TEST: 406
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 4-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 501

TRT#: 8

SEX: Female

DAY ON TEST: 364

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral 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	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-2		
Kidney		Karyomegaly	Minimal
		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1,5,6,9-7+9+13+14		
Pancreas	Acinus	Atrophy	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-3		
Zymbal's Gland		Adenoma	
		Carcinoma	
Note: CARCINOMA	TGLs = 7-10.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:49

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 502

TRT#: 8

DOSE: 0.015

SEX: Female

DISP: Moribund

DAY ON TEST: 383

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Heart

Intestine Small - Duodenum

Lymph Node - Mandibular

Ovary

Salivary Glands

Thymus

Zymbal's Gland

Adrenal Gland - Medulla

Intestine Large - Cecum

Intestine Small - Ileum

Lymph Node - Mesenteric

Pancreas

Skin

Thyroid Gland

Bone Marrow

Intestine Large - Colon

Intestine Small - Jejunum

Mammary Gland

Parathyroid Gland

Stomach - Forestomach

Trachea

Esophagus

Intestine Large - Rectum

Islets, Pancreatic

Nose

Pituitary Gland

Stomach - Glandular

Uterus

OBSERVATIONS

Brain

Clitoral Gland

Note: CARCINOMA TGLs = 1-8.1

Kidney

Note: NEPHROPATHY TGLs = 4-5

Liver

Note: MIXED CL FOCUS TGLs = 7-3.1

Lung

Note: ALV BRON CARC TGLs = 6-4

Spleen

Tongue

Note: SQ CL PAPILOM TGLs = 5-13

Urinary Bladder

Note: HYPERPLASIA TGLs = 2-8

Glioma Malignant

Carcinoma

Karyomegaly

Nephropathy

Eosinophilic Focus

Mixed Cell Focus

Alveolar/Bronchiolar Carcinoma

Infiltration Cellular

Hematopoietic Cell Proliferation

Squamous Cell Papilloma

Hyperplasia

Minimal

Marked

Mild

Mild

Histiocyte, Minimal

Moderate

Papillary, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 503	TRT#: 8	SEX: Female	DAY ON TEST: 391
	DOSE: 0.015	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Moderate
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 2-6.1		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5		
Liver		Degeneration	Cystic, Mild
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS	TGLs = 3-3.1		
Note: DEGEN	TGLs = 4-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
Stomach	Glandular	Degeneration	Cystic, Minimal
Thymus	Epithel Cell	Hyperplasia	Minimal
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 504	TRT#: 8	SEX: Female	DAY ON TEST: 285
	DOSE: 0.015	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Pituitary Gland		Cyst	
Zymbal's Gland		Carcinoma	

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 505

TRT#: 8

SEX: Female

DAY ON TEST: 285

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Thymus
Uterus

OBSERVATIONS

Kidney

Karyomegaly

Minimal

Nephropathy

Mild

Liver

Eosinophilic Focus

Mild

Fatty Change

Multifocal, Minimal

Hematopoietic Cell Proliferation

Minimal

Inflammation

Granulomatous, Multifocal, Minimal

Note: FATTY CHANGE TGLs = 5-3.1

Lung

Infiltration Cellular

Histiocyte, Minimal

Mammary Gland

Adenocarcinoma

Note: [ADENOCARC] TGLs = 1-10.1

Pituitary Gland

Cyst

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 3-3

Tongue

Squamous Cell Papilloma

Note: SQ CL PAPILOM TGLs = 2-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 506

TRT#: 8

SEX: Female

DAY ON TEST: 335

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Clitoral 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 - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Eosinophilic Focus	Moderate
Note: EOSIN FOCUS	TGLs = 2-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL	TGLs = 3-4+4.1		
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
Tooth	Peridont Tiss	Inflammation	Chronic Active, Moderate
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 4-10.1+10.2		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 507

TRT#: 8

SEX: Female

DAY ON TEST: 247

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Kidney
Liver
Lung
Lymph Node

Zymbal's Gland

Duct

Mandibular
Mandibular

Ectasia
Nephropathy
Eosinophilic Focus
Infiltration Cellular
Hyperplasia
Hyperplasia
Carcinoma

Moderate
Mild
Moderate
Histiocyte, Minimal
Lymphoid, Moderate
Plasma Cell, Mild

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 508

TRT#: 8

SEX: Female

DAY ON TEST: 251

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Intestine Small		Duodenum	Adenocarcinoma	
Note: ADENOCARC	TGLs = 3-6.1			
Kidney			Karyomegaly	Minimal
			Nephropathy	Mild
Liver			Basophilic Focus	Mild
			Mixed Cell Focus	Mild
Lymph Node		Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA	TGLs = 1-9			
Zymbal's Gland			Adenoma	
			Carcinoma	
Note: CARCINOMA	TGLs = 2-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 509

TRT#: 8

SEX: Female

DAY ON TEST: 391

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Liver		Eosinophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Mild
		Inflammation	Granulomatous, Multifocal, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS	TGLs = 4-3.1		
Lung		Infiltration Cellular	Histiocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 3-3		
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 510

TRT#: 8

SEX: Female

DAY ON TEST: 422

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 2-8		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Bile Duct	
		Cyst	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
Note: EOSIN FOCUS	TGLs = 4,5-3.1		
Note: DEGEN	TGLs = 5-3.1		
[Eosinophilic Focus TGLs = 6-3.1]			
Lung		Alveolar Epith	
		Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Adenocarcinoma	
Mammary Gland			
Note: [ADENOCARC]	TGLs = 7-14		
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 1-13		
Thyroid Gland		Follicular Cel	
		Adenoma	
		Ultimobranchial Cyst	
Zymbal's Gland		Hyperplasia	Squamous, Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 510

TRT#: 8

SEX: Female

DAY ON TEST: 422

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 511

TRT#: 8

SEX: Female

DAY ON TEST: 383

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Eye	Cornea	Inflammation	Suppurative, Mild
Note: INFLAMMATION	TGLs = 3-13		
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	Mild
Note: DEGEN	TGLs = 6-3.1		
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 4-14		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 7-10+10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 512

TRT#: 8

SEX: Female

DAY ON TEST: 384

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral 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 - Mesenteric	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
[Eosinophilic Focus TGLS = 4-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-13			
Nose		Hemorrhage	Minimal
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 5-14			
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 6-15			
Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 7-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 513

TRT#: 8

SEX: Female

DAY ON TEST: 343

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Mixed Cell Focus	Moderate
		Neoplastic Nodule	
Note: MIXED CL FOCUS	TGLs = 3-3.1		
[Mixed Cell Focus TGLS = 3-3.1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Ovary	Periovarn Tiss	Cyst	
Note: CYST	TGLs = 2-8		
Pituitary Gland		Cyst	
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 4-10.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 514

TRT#: 8

SEX: Female

DAY ON TEST: 335

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	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	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Brain		Carcinoma	Metastatic (Zymbal'S Gland)
	Cerebellum	Hemorrhage	Moderate
	Cerebellum	Hemorrhage	Moderate
[Carcinoma TGLS = 4-1]			
[Hemorrhage TGLS = 4-1]			
[Hemorrhage TGLS = 3-1]			
Clitoral Gland	Bilateral	Adenoma	
Note: ADENOMA TGLs = 1-8			
Kidney		Karyomegaly	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 2-5			
Liver		Angiectasis	Mild
		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
[Basophilic Focus TGLS = 6-3.1]			
Nose		Inflammation	Suppurative, Mild
Stomach	Glandular	Degeneration	Cystic, Minimal
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 5-10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 515

TRT#: 8

SEX: Female

DAY ON TEST: 422

DOSE: 0.015

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1,2-8.1+8.2

Bilateral

Carcinoma

Kidney
Note: NEPHROPATHY TGLs = 3-5

Karyomegaly
Nephropathy

Minimal
Moderate

Liver
[Mixed Cell Focus TGLS = 4-3.1]

Inflammation
Mixed Cell Focus

Granulomatous, Multifocal, Minimal
Mild

Tongue
Note: SQ CL PAPILOM TGLs = 5-13
Zymbal's Gland

Squamous Cell Papilloma

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 3,3'-Dimethylbenzidine dihydrochloride

CAS Number: 612-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 23:14:49

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 516

TRT#: 8

SEX: Female

DAY ON TEST: 384

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 1,2-8.1			
Eye	Cornea	Inflammation	Suppurative, Marked
Note: INFLAMMATION TGLs = 9-13	Conjunctiva	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 7,8-13			
Kidney		Karyomegaly	Minimal
Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Marked
Liver		Eosinophilic Focus	Moderate
Lung		Carcinoma	Metastatic (Uncertain Primary Site)
Note: CARCINOMA TGLs = 5-4.1			
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 4-2			
Thyroid Gland		Ultimobranchial Cyst	
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 10-10+10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 517

TRT#: 8

SEX: Female

DAY ON TEST: 391

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Multifocal, Minimal
Bone Marrow		Hyperplasia	Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 3-8.1		
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
Note: EOSIN FOCUS	TGLs = 6-3.1	Mixed Cell Focus	Moderate
Note: MIXED CL FOCUS	TGLs = 6-3.1		
Lung		Carcinoma	Metastatic (Clitoral Gland)
	Alveolar Epith	Hyperplasia	Focal, Mild
Note: CARCINOMA	TGLs = 1-4.1		
Ovary		Granulosa Cell Tumor Malignant	
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 5-3		
Tissue NOS		Sarcoma	
Note: SARCOMA	TGLs = 4-13		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 517

TRT#: 8

SEX: Female

DAY ON TEST: 391

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TISSUE NOS = VAGINA.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 518

TRT#: 8
DOSE: 0.015

SEX: Female
DISP: Moribund

DAY ON TEST: 405
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue
Zymbal's Gland

Squamous Cell Papilloma
Adenoma
Carcinoma

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 519

TRT#: 8

SEX: Female

DAY ON TEST: 405

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Heart
Islets, Pancreatic
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Mammary Gland
Salivary Glands
Stomach - Glandular

Brain
Intestine Small - Duodenum
Ovary
Skin
Thyroid Gland

Esophagus
Intestine Small - Ileum
Pancreas
Spleen
Trachea

MISSING

Thymus

OBSERVATIONS

Adrenal Gland
Note: ANGIECTASIS TGLs = 9-2
Clitoral Gland
Note: ADENOMA TGLs = 1-8
Intestine Large
Note: ADENOCARC TGLs = 4-7.1
Note: POLYP ADENOMAT TGLs = 5-7.1
Intestine Small
Note: ADENOCARC TGLs = 6-6
Kidney
Liver
Lung
Note: [HEPATOCLR CARC] TGLs = 7-3.2
Note: EOSIN FOCUS TGLs = 8-3.1
Note: MIXED CL FOCUS TGLs = 8-3.1

Cortex
Bilateral
Colon
Rectum
Jejunum

Angiectasis
Adenoma
Adenocarcinoma
Polyp Adenomatous
Adenocarcinoma
Karyomegaly
Nephropathy
Cyst
Eosinophilic Focus
Hepatocellular Carcinoma
Leukemia Mononuclear
Mixed Cell Focus

Mild
Cystic, Mucinous
Minimal
Moderate
Mild
Mild
Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 519	TRT#: 8 DOSE: 0.015	SEX: Female DISP: Moribund	DAY ON TEST: 405 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Nose		Hemorrhage	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 10-2			
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-8			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 11-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05166-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 3,3'-Dimethylbenzidine dihydrochloride
CAS Number: 612-82-8

Date Report Requested: 10/21/2014
Time Report Requested: 23:14:49
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 520

TRT#: 8

SEX: Female

DAY ON TEST: 370

DOSE: 0.015

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Bone Marrow		Atrophy	Mild
		Hemorrhage	Mild
Clitoral Gland	Duct	Ectasia	Moderate
Kidney		Karyomegaly	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Mild
		Necrosis	Coagulative, Focal, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 2-13		
Stomach	Glandular	Degeneration	Cystic, Minimal
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 3-14		
Zymbal's Gland		Adenoma	
Note: ADENOMA	TGLs = 4-10		

PRIMARY CAUSE OF DEATH

-

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE