

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:42
First Dose M/F: NA / NA
Lab: SRI

C Number: C62537D
Lock Date: 08/24/1998
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 03/16/2000

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 97-81673
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Cecum

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLS = 2-21]			
[Clear Cell Focus TGLS = 2-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 97-81674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
[Hyperplasia TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
Note: MODERATE NUMBER OF HEMOSIDERIN-CONTAINING MACROPHAGES IN PARS DISTALIS; NOT CODED ON TDMS.			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81674

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 97-81675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain			
Note: TGL 3-1 MAY REPRESENT MINIMAL HEMORRHAGE; MORPHOLOGY NOT TABULATED ON TDMS.			
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Ectasia	Moderate
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Minimal
[Fibrosis TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH -

Animal Note: PITUITARY GLAND AND ONE ADRENAL GLAND HAVE SWITCHED SLIDE LOCATIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 695
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 97-81060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-10]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 8-6,9-6]			
[Leukemia Mononuclear TGLS = 8-6,9-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
	Pancreatic	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 11-24]			
[Leukemia Mononuclear TGLS = 4-7]			
[Pigmentation TGLS = 11-24]			
[Pigmentation TGLS = 4-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 695
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 97-81060

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 10-5]		Leukemia Mononuclear	
* Mammary Gland Mesentery [Necrosis TGLS = 7-22]	Fat	Hyperplasia Necrosis	Moderate Moderate
* Prostate		Inflammation	Chronic, Mild
* Skin [Fibroma TGLS = 2-21,12-23]	Subcut Tiss	Fibroma	
* Spleen [Hematopoietic Cell Proliferation TGLS = 5-6-1] [Leukemia Mononuclear TGLS = 5-6-1,13-25]		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
* Testes [Adenoma TGLS = 3-7]	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Hemangioma	
[Hemangioma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 639 HISTO: 97-80226
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Carcinoma	Metastatic (Pancreas)
[Carcinoma TGLS = 7-6]			
* Lung		Carcinoma	Metastatic (Pancreas)
		Hemorrhage	Mild
[Carcinoma TGLS = 9-26]			
[Hemorrhage TGLS = 9-26]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 8-25]			
[Pigmentation TGLS = 8-25]			
* Pancreas	Acinus	Carcinoma	
[Carcinoma TGLS = 2-21,4-22,5-23]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
Skeletal Muscle		Carcinoma	Metastatic (Pancreas)
[Carcinoma TGLS = 6-24]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 1	SEX: Male	DAY ON TEST: 639
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 97-80226

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Cyst Epithelial Inclusion TGLS = 10-27]		Cyst Epithelial Inclusion	
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-6]		Hematopoietic Cell Proliferation	Marked
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Pancreas Acinus Carcinoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 97-81678
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
Eye		Melanoma Malignant	
		Melanoma Malignant	
		Melanoma Malignant	
Note: Melanoma Mal is Amelanotic.			
[Melanoma Malignant TGLS = 5-21]			
[Melanoma Malignant TGLS = 5-21]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
[Hyperplasia TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:42
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 97-81678

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 4-7]	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland [Adenoma TGLS = 6-3]	C Cell	Adenoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 679 HISTO: 97-80793
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear	Fatty, Minimal
[Leukemia Mononuclear TGLS = 10-10]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression Leukemia Mononuclear	Moderate
[Compression TGLS = 11-1,11-1-1]			
[Leukemia Mononuclear TGLS = 11-1,11-1-1]			
* Epididymis		Atypia Cellular	Mild
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyaline Droplet Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 9-5]			
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Moderate
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Mild
[Leukemia Mononuclear TGLS = 5-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-21]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 679
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 97-80793

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 8-5]		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland [Adenoma TGLS = 6-1] [Leukemia Mononuclear TGLS = 6-1]	Pars Distalis	Adenoma Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4-7]	Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-22]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-21]			
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 609

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 4-5]			
* Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Moderate
Lymph Node	Mediastinal	Pigmentation	Marked
[Pigmentation TGLS = 5-3]			
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-21]			
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 6-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Malignant	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 637

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Intestine Small, Duodenum

OBSERVATIONS

* Brain		Granular Cell Tumor Malignant	
[Granular Cell Tumor Malignant TGLS = 2-22]			
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-23]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-21]			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH - Brain Granular Cell Tumor Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Renal Tubule	Pigmentation	Mild
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Leukemia Mononuclear	
		Regeneration	Focal, Mild
		[Leukemia Mononuclear TGLS = 7-6]	
		[Regeneration TGLS = 8-24]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Note: MODERATE HEMOSIDERIN-LIKE PIGMENT IN AXILLARY LYMPH NODE; NOT CODED ON TDMS.	
		[Leukemia Mononuclear TGLS = 9-25]	
		[Leukemia Mononuclear TGLS = 1-21]	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Moderate
		[Necrosis TGLS = 4-23]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81680

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Respirat Epith	Hyperplasia	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
[Angiectasis TGLS = 10-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 2-22]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Pituitary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 2-6]			
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, 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			

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 378

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-77627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Edema	Mild
		Ulcer	Mild
* Liver		Lymphoma Malignant	
	Kupffer Cell	Pigmentation	Mild
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 6-23]		
	[Lymphoma Malignant TGLS = 2-21]		
	[Lymphoma Malignant TGLS = 5-22]		
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 4-5,7-24]		
* Nose		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 1-6]		
* Stomach, Forestomach		Edema	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 378

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-77627

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

* Testes

Interstit Cell

Ulcer

Erosion

Hyperplasia

Moderate

Mild

Mild

PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
Note: MODERATE HISTIOCYTIC CELLULAR INFILTRATION CONSIDERED SECONDARY TO COMPRESSION FROM PITUITARY GLAND ADENOMA; NOT TABULATED ON TDMS. [Compression TGLS = 10-1]			
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
[Hemorrhage TGLS = 9-2] [Infiltration Cellular TGLS = 9-2] [Leukemia Mononuclear TGLS = 9-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-21]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81727

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 11-1]

* Preputial Gland

Carcinoma
Inflammation

Chronic, Mild

[Carcinoma TGLS = 2-8]

* Prostate

Epithelium

Hyperplasia
Inflammation

Mild
Chronic, Mild

* Spleen

[Leukemia Mononuclear TGLS = 5-6]

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 627

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * 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 |
| Peripheral Nerve | * Pituitary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--|-----------|----------------------|---------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-1] | | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| [Hyperplasia TGLS = 4-6] | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Pleura | | | |
| Note: CYST PRESENT IN PARS NERVOSA; NOT TABULATED ON TDMS. | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| Spinal Cord | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 627

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80130

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 6-4]
* Stomach, Glandular

Ulcer

Marked

[Ulcer TGLS = 6-4]
* Testes

Leukemia Mononuclear

Ulcer

Marked

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Ectasia	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adren Cortex			
Note: CYST IN ADRENAL CORTEX; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-2]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Malignant	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Kidney	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 4-22]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Hyperplasia	Moderate
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Malignant	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81683

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 591

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Dilatation	Moderate
		Nephropathy	Minimal
			[Dilatation TGLS = 4-5]
			[Nephropathy TGLS = 4-5]
* Liver	Hepatocyte	Lymphoma Malignant	
		Vacuolization Cytoplasmic	Moderate
* Lung		Lymphoma Malignant	
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
			[Lymphoma Malignant TGLS = 2-21]
* Nose		Inflammation	Chronic, Mild
* Pancreas		Lymphoma Malignant	
			[Lymphoma Malignant TGLS = 3-22]
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Lymphoma Malignant	
* Salivary Glands		Atrophy	Moderate
Note: MILD DIFFUSE ACINAR CELL NECROSIS; NOT CODED ON TDMS.			
* Seminal Vesicle		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 591

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79905

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate
	[Ulcer TGLS = 8-24]		
* Stomach, Glandular		Ulcer	Moderate
	[Ulcer TGLS = 7-23]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
	[Adenoma TGLS = 1-7]		
* Thymus		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 6-3]		

PRIMARY CAUSE OF DEATH - Thymus Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* 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	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-81369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Carcinoma	
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
[Pigmentation TGLS = 1-8]			
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Minimal
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[Adenoma TGLS = 5-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-81369

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Carcinoma	Metastatic (Pituitary Gland)
[Carcinoma TGLS = 5-1]			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 4-1]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 2-22]			
* Prostate		Inflammation	Chronic, Mild
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-21]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	Interstitial Cell	Hyperplasia	Mild
[Adenoma TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81685

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Ectasia	Mild
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 687

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Esophagus | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Intestine Large, Rectum

OBSERVATIONS

- | | | | |
|-------------------|---|--|------------------------------------|
| * Adrenal Cortex | | Degeneration
Hypertrophy
Leukemia Mononuclear | Fatty, Moderate
Focal, Moderate |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Atypia Cellular | Mild |
| * Kidney | | Leukemia Mononuclear
Pigmentation | Moderate |
| | Renal Tubule | | |
| | [Leukemia Mononuclear TGLS = 7-5,14-5] | | |
| | [Pigmentation TGLS = 7-5] | | |
| * Liver | Bile Duct | Hyperplasia
Leukemia Mononuclear | Moderate |
| | [Hyperplasia TGLS = 8-6] | | |
| | [Leukemia Mononuclear TGLS = 8-6] | | |
| * Lung | | Infiltration Cellular
Leukemia Mononuclear | Histiocyte, Minimal |
| | [Leukemia Mononuclear TGLS = 9-2] | | |
| Lymph Node | Deep Cervical
Mediastinal
Pancreatic
Renal | Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 687

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81061

ORGAN AND ACCOUNTABLE SITE STATUS

	Renal	Leukemia Mononuclear Pigmentation	Moderate
	[Leukemia Mononuclear TGLS = 6-21]		
	[Leukemia Mononuclear TGLS = 11-23]		
	[Leukemia Mononuclear TGLS = 10-22]		
	[Leukemia Mononuclear TGLS = 12-24]		
	[Leukemia Mononuclear TGLS = 5-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-8]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 15-5]		
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 704

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Diffuse, Moderate
[Hyperplasia TGLS = 4-21]			
* Bone	Cranium	Osteopetrosis	Mild
[Osteopetrosis TGLS = 14-25,15-25]			
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	Kupffer Cell	Pigmentation	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Hyperplasia TGLS = 16-6]			
[Vacuolization Cytoplasmic TGLS = 16-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 704

HISTO: 97-81124

ORGAN AND ACCOUNTABLE SITE STATUS

[Schwannoma Malignant TGLS = 1-8]		Schwannoma Malignant	
* Prostate		Inflammation	Chronic, Moderate
* Skin		Carcinoma	Metastatic (Zymbal'S Gland)
[Carcinoma TGLS = 13-23]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Stomach, Glandular		Erosion	Moderate
Note: MOST OF EROSION IS VISIBLE ON SLIDE 4.			
[Erosion TGLS = 7-26]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	
Tooth		Malformation	
[Malformation TGLS = 11-27,12-28]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 10-22]			

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|----------------|-------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone | | Hyperostosis | Mild |
| [Hyperostosis TGLS = 6-2] | | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Nose | Respirat Epith | Hyperplasia | Mild |
| * Pancreas | | Atrophy | Minimal |
| Pleura | | | |
| Note: TGL 4-1 IS CYST IN PARS INTERMEDIA; MORPHOLOGY NOT TABULATED ON TDMS. | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| * Stomach, Glandular | | Erosion | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80794

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MICROABSCCESS PRESENT IN FORESTOMACH MUCOSA.

* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 5-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Esophagus

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 3-5]			
* Mammary Gland		Galactocele	Marked
		Hyperplasia	Marked
		Inflammation	Granulomatous, Moderate
[Galactocele TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 6-8]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81687

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Thyroid Gland	* Trachea		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Marked
		[Hepatodiaphragmatic Nodule TGLS = 8-24]	
		[Hyperplasia TGLS = 2-6]	
		[Leukemia Mononuclear TGLS = 2-6,5-21]	
		[Necrosis TGLS = 5-21]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79906

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-23]			
* Stomach, Glandular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 3-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Marked
	[Inflammation TGLS = 1-8]		
* Prostate		Adenoma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Ectasia	Moderate
		Leukemia Mononuclear	
		Pigmentation	Mild
Peritoneum		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 2-21]		
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Hemangioma	
	[Hemangioma TGLS = 5-22]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81690

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell Tunic	Adenoma Mesothelioma Malignant
* Thyroid Gland	C Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 639

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
[Compression TGLS = 2-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 8-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8]			
* Nose	Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Moderate
[Pigmentation TGLS = 7-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:43
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 639

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80228

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	[Hepatodiaphragmatic Nodule TGLS = 3-21]		
	[Hyperplasia TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Moderate
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-1]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone	Femur	Osteopetrosis	Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-10]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
		Thrombosis	Moderate
[Thrombosis TGLS = 11-5]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Kupffer Cell	Leukemia Mononuclear	
		Pigmentation	Mild
[Hepatodiaphragmatic Nodule TGLS = 7-22]			
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81693

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9-23]

[Leukemia Mononuclear TGLS = 3-7]

[Leukemia Mononuclear TGLS = 10-24]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 8-5]

Mesentery

Accessory Spleen

[Accessory Spleen TGLS = 4-21]

* Pancreas

Leukemia Mononuclear

* Preputial Gland

Inflammation

Chronic, Moderate

* Prostate

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 504

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver	Centrilobular	Basophilic Focus	
		Necrosis	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		[Alveolar/Bronchiolar Adenoma TGLS = 8-2]	
Lymph Node	Mediastinal	Pigmentation	Moderate
		[Pigmentation TGLS = 3-3]	
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
		[Mesothelioma Malignant TGLS = 5-21,7-22]	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Malignant	
		[Adenoma TGLS = 6-7]	

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Eosinophilic Focus TGLS = 2-21]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, 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

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Prostate		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 9-22]	
		[Leukemia Mononuclear TGLS = 8-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Pancreatic	Pigmentation	Mild
		[Leukemia Mononuclear TGLS = 1-8]	
		[Leukemia Mononuclear TGLS = 6-7]	
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Schwannoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81694

ORGAN AND ACCOUNTABLE SITE STATUS

[Schwannoma Malignant TGLS = 2-21]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Salivary Glands Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
Eye	Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Pigmentation	Moderate
[Pigmentation TGLS = 2-3]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 2-21]			
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
[Basophilic Focus TGLS = 3-6]		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
* Stom Gland			
Note: TGL 7 IS NORMAL LYMPHOID TISSUE.			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81731

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Marked
* Lung	Alveolar Epith	Hyperplasia	Mild
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-7]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
Peritoneum		Inflammation	Chronic, Mild
[Inflammation TGLS = 4-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Pigmentation	Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81732

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith
Interstit Cell

Atrophy
Hyperplasia

Moderate
Mild

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear	Fatty, Minimal
[Leukemia Mononuclear TGLS = 5-10]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Hemorrhage	Moderate
	Hepatocyte	Leukemia Mononuclear	
[Hemorrhage TGLS = 6-6]		Vacuolization Cytoplasmic	Moderate
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
[Hemorrhage TGLS = 9-2]			
[Leukemia Mononuclear TGLS = 9-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 3-7]			
[Leukemia Mononuclear TGLS = 8-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81697

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 8-21]

* Lymph Node, Mandibular

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-8]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-5]

* Mammary Gland

Hyperplasia

Mild

* Pituitary Gland

Leukemia Mononuclear

* Preputial Gland

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

* Stomach, Forestomach

Epithelium

Hyperplasia

Marked

Ulcer

Marked

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Leukemia Mononuclear

Note: HEMORRHAGE ASSOCIATED WITH LEUKEMIA MONUC; NOT CODED ON TDMS.

[Leukemia Mononuclear TGLS = 7-3]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Epididymis		Atypia Cellular	Mild
Eye		Cataract	Mild
Note: MODERATE SCLERAL MINERALIZATION; NOT CODED			
[Cataract TGLS = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Marked
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81733

ORGAN AND ACCOUNTABLE SITE STATUS

[Keratoacanthoma TGLS = 2-22]

* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild

[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-81698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
[Leukemia Mononuclear TGLS = 4-5]			
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Moderate
[Hyperplasia TGLS = 5-6]			
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 8-8]			
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 6-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-81698

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-1]

* Preputial Gland

Inflammation

Chronic, Moderate

* Prostate

Epithelium

Hyperplasia

Marked

* Skin

Cyst Epithelial Inclusion

[Cyst Epithelial Inclusion TGLS = 1-21]

* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

Pigmentation

Moderate

[Fibrosis TGLS = 3-22]

[Pigmentation TGLS = 3-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-81994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--------------|---------------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Atypia Cellular | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Hyaline Droplet | Mild |
| | Renal Tubule | Leukemia Mononuclear | |
| | | Pigmentation | Mild |
| | | [Leukemia Mononuclear TGLS = 6-5] | |
| | | [Pigmentation TGLS = 6-5] | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | [Hyperplasia TGLS = 4-6] | |
| | | [Leukemia Mononuclear TGLS = 4-6] | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 5-2] | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Mediastinal | Pigmentation | Moderate |
| | | [Leukemia Mononuclear TGLS = 7-3-1] | |
| | | [Pigmentation TGLS = 7-3-1] | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-81994

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 8-21]	Fat	Necrosis	Moderate
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Hyperplasia	Focal, Mild
* Prostate	Epithelium	Inflammation	Chronic, Mild
* Spleen		Hyperplasia	Mild
		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
[Hematopoietic Cell Proliferation TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-81995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Moderate
		Hemorrhage	Minimal
Mesentery	Fat	Necrosis	Mild
Note: MODERATE ANGIECTASIS AROUND MARGINS OF FOCAL FAT NECROSIS; NOT CODED ON TDMS.			
[Necrosis TGLS = 3-21]			
* Pancreas		Atrophy	Mild
Note: PANCREATIC ATROPHY IS PIMARILY ON SLIDE 4.			
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Marked
[Adenoma TGLS = 1-8]			
[Inflammation TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-81996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung			
Note: FOCAL EMPTY SPACE IN LUNG LINED BY AGGREGATES OF FIBROUS TISSUE; SUGGESTIVE OF MINIMAL ATELECTASIS; NOT CODED ON TDMS.			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-81996

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-81997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-81998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Eye		Cataract	Mild
	Retina	Degeneration	Marked
[Cataract TGLS = 3-21]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 2-2]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-81999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* 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	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Infarct	Moderate
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
[Infarct TGLS = 5-5]			
[Pigmentation TGLS = 4-5]			
* Liver	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82000

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 659

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
Lacrimal Gland	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Small, Ileum	* Pituitary Gland
--------------------------	-------------------

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Moderate
[Thrombosis TGLS = 8-5]			
* Liver		Degeneration	Cystic, Minimal
		Thrombosis	Moderate
	Centrilobular	Vacuolization Cytoplasmic	Moderate
[Thrombosis TGLS = 7-23]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 9-2]			
[Infiltration Cellular TGLS = 9-2]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-22]			
* Nose		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 5-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 659

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80467

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

[Inflammation TGLS = 1-8]

Inflammation

Chronic, Mild

* Spleen

[Fibrosis TGLS = 10-6]

[Hematopoietic Cell Proliferation TGLS = 10-6]

Fibrosis

Moderate

Hematopoietic Cell Proliferation

Moderate

* Testes

Interstit Cell

Germinal Epith

Interstit Cell

Tunic

Adenoma

Atrophy

Hyperplasia

Mesothelioma Malignant

Marked

Mild

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 515

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Compression Hydrocephalus	Moderate Mild
[Compression TGLS = 4-1]			
* Kidney	Renal Tubule	Hyaline Droplet Nephropathy Pigmentation	Mild Minimal Mild
	Renal Tubule		
* Liver		Basophilic Focus Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage Pigmentation	Mild Moderate
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 2-8-1]			
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 515

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79047

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 631

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Mild
[Edema TGLS = 5-4]			
[Hyperplasia TGLS = 5-4]			
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Mild
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 1= No Correlating Lesion.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 631

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80131

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* 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	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 668

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Diffuse, Mild
* Brain		Compression	Moderate
		Hydrocephalus	Moderate
[Compression TGLS = 6-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 10-24]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 8-22]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-21]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 668

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80505

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Pigmentation TGLS = 4-6]		Pigmentation	Moderate
* Testes [Atrophy TGLS = 2-7]	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Moderate Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 592

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Thrombosis	Mild
		Carcinoma	
* Preputial Gland			
[Carcinoma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Stomach, Glandular		Erosion	Mild
[Erosion TGLS = 6-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 592

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79907

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 592

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 7-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 4-22]		
* Preputial Gland		Carcinoma	
	[Carcinoma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
	[Hematopoietic Cell Proliferation TGLS = 5-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Eosinophilic Focus TGLS = 3-21,4-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 490

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-78967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Adenoma	
Note: MULTIPLE CYSTS ASSOCIATED WITH ADENOMA. [Adenoma TGLS = 2-22]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 4-22]			
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7,3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Colon

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 3-6]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-1]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Adenoma	
		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82006

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 4-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
[Pigmentation TGLS = 2-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, 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

INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
		[Clear Cell Focus TGLS = 6-22]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		[Infiltration Cellular TGLS = 4-2]	
Mesentery	Fat	Necrosis	Marked
		[Necrosis TGLS = 3-21]	
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Corpora Amylacea	Marked
	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 2-7]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82008

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-8200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Esophagus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 3-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-8200

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

Note: C CELL ADENOMA AND C CELL HYPERPLASIA ARE IN OPPOSITE LOBES OF THYROID GLAND.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
Note: MILD HEMORRHAGE ASSOCIATED WITH FAT NECROSIS; NOT CODED ON TDMS.			
[Necrosis TGLS = 4-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 627

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Heart			
Note: MINIMAL MYOCARDIAL MINERALIZATION; NOT CODED ON TDMS.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Necrosis	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Mild
* Skin		Basal Cell Carcinoma	
	[Basal Cell Carcinoma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 6-6]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH - Skin Basal Cell Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* 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		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-21]			
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Malignant	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 4-5]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 5-5]			
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Skin	Sebaceous Gl	Adenoma	
[Adenoma TGLS = 6-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82013

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-23]			
* Nose	Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
* Prostate		Adenoma	
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82014

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Adrenal Medulla	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Infarct	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-22]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 5-1]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Prostate	Epithelium	Hyperplasia	Moderate
* Skin		Hemorrhage	Marked
[Hemorrhage TGLS = 3-23]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82015

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

* Thyroid Gland

Follicle

Cyst

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild

Note: BASOPH FOCUS IS ON SLIDE 22.

Note: LIVER ON SLIDE 23 HAS CLUSTERS OF VACUOLATED HEPATOCYTES, FOCAL MINERALIZATION, AND AGGREGATES OF HEMOSIDERIN-CONTAINING MACROHPAGES BENEATH CAPSULE; NOT CODED.

[Hepatodiaphragmatic Nodule TGLS = 1-21]

* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
Mesentery			

Note: TGL 6-4-1 IS AN AREA OF MODERATE FIBROSIS, LYMPHOCYTIC INFILTRATION, AND PIGMENT-CONTAINING MACROPHAGES; NOT TABULATED ON TDMS.

* Nose	Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal

[Adenoma TGLS = 5-1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82016

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 7-7]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 611

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Astrocytoma Malignant	
* Epididymis		Atypia Cellular	Moderate
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Minimal
* Liver		Pigmentation	Mild
[Leukemia Mononuclear TGLS = 5-6]		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-21]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 611

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79978

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

[Leukemia Mononuclear TGLS = 8-22]

Leukemia Mononuclear

* Testes

[Adenoma TGLS = 1-7]

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Brain Astrocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 516

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Pituitary Gland	* Preputial Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Epididymis

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[Infiltration Cellular TGLS = 5-2,6-2,7-2]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-22]		
* Pancreas		Atrophy	Minimal
* Skin		Inflammation	Chronic, Moderate
	Note: MILD FIBROSIS ASSOCIATED WITH CHRONIC INFLAMMATION; NOT CODED ON TDMS.		
	[Inflammation TGLS = 1-21]		
* Testes	Interstitial Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Thyroid Gland	Follicular Cel	Carcinoma	

PRIMARY CAUSE OF DEATH

- Thyroid Gland Follicular Cel Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 2-21]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 581

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 6-21]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-2]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 581

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79626

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

* Stomach, Forestomach

Epithelium

Edema

Moderate

Hyperplasia

Moderate

Ulcer

Moderate

[Ulcer TGLS = 8-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGSL = 3-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82018

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1-7]

[Atrophy TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 3-1]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Note: MINERALIZATION OF MINIMAL SEVERITY; NOT CODED ON TDMS.			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
Oral Mucosa		Squamous Cell Carcinoma	
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82020

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 8-1]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Skin [Keratoacanthoma TGLS = 2-21]		Keratoacanthoma	
* Spleen		Fibrosis	Mild
		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-7]			
[Atrophy TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 724

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Pituitary Gland

OBSERVATIONS

* Adren Medulla

Note: AREA OF ADRENAL MEDULLA IS FILLED WITH "GHOST-LIKE" CELLS (POSSIBLE SEQUEL TO LEUKEMIA MONUC); NOT CODED ON TDMS.

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 5-5]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 2-6]			
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
Note: MODERATE AMOUNT OF BROWN PIGMENT IN DUCTAL AND GLANDULAR EPITHELIUM AND IN DUCTAL LUMINA OF MAMMARY GLAND; NOT CODED.			
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 724

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81829

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
[Hemorrhage TGLS = 1-8]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Preputial Gland		Adenoma	
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstitial Cell	Hyperplasia	Mild
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Nephropathy	Minimal
* Liver		Pigmentation	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-21]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate			
Note: LOCALIZED AREA OF EPITHELIAL HYPERTROPHY AND VACUOLIZATION; NOT CODED ON TDMS.			
* Spleen		Hemorrhage	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7,2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-6]			
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
Note: MODERATE FIBROSIS, HEMORRHAGE AND MAST CELL INFILTRATE ALONG EDGES OF FAT NECROSIS.			
[Necrosis TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Mixed Cell Focus	
Note: MIXED CL FOCUS ALSO ON SLIDE 6. [Mixed Cell Focus TGLS = 3-21]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		[Alveolar/Bronchiolar Carcinoma TGLS = 4-2]	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Minimal
		[Adenoma TGLS = 1-7]	
		[Atrophy TGLS = 2-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
			[Hyperplasia TGLS = 2-8]
Mesentery	Fat	Necrosis	Mild
			[Necrosis TGLS = 3-21]
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLS = 4-1]
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
			[Adenoma TGLS = 1-7]
* Thyroid Gland	Follicle	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82026

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-2]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-22]			
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-10]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
Eye		Cataract	Marked
	Retina	Degeneration	Marked
		Hemorrhage	Marked
[Cataract TGLS = 2-22]			
[Hemorrhage TGLS = 1-21]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-23,12-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82028

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 10-24]

* Lymph Node, Mandibular

Ectasia

Mild

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Cyst

Moderate

* Preputial Gland

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-6-1]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Moderate

[Adenoma TGLS = 4-7]

[Atrophy TGLS = 3-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	[Basophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[Hemorrhage TGLS = 3-5]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	Interstitial Cell	Hyperplasia	Moderate
	[Adenoma TGLS = 1-7]		
	[Hyperplasia TGLS = 4-7]		
* Thyroid Gland	Follicular Cel	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Marked
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
Note: LOCALIZED AREA OF MODERATELY INCREASED ACINAR CYTOPLASMIC BASOPHILIA; NOT CODED ON TDMS.			
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
[Inflammation TGLS = 3-7]			
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
[Angiectasis TGLS = 2-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Thymoma Malignant	
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Int Lg Cecum			
Note: MILD CHRONIC INFLAMMATION; NOT CODED ON TDMS.			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Carcinoma	Metastatic (Preputial Gland)
* Lymph Node, Mandibular		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 3-21]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-8]			
		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
		Pigmentation	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 2-7]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Note: CYSTIC DEGENERATION IS ON SLIDE 21.			
[Clear Cell Focus TGLS = 2-21]			
[Eosinophilic Focus TGLS = 3-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 5-23]		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Adenoma	
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21,2-22,6-24]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81825

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 523

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Esophagus

INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Heart		Cardiomyopathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked
[Inflammation TGLS = 2-7,3-7]			
* Spleen		Pigmentation	Marked
* Thymus			

Note: TGL 4 IS MARKED CONGESTION; MORPHOLOGY NOT AVAILABLE ON TDMS.

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Marked
* Heart		Cardiomyopathy	Moderate
Note: AORTA IS ON SLIDE 5.			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Infarct	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-10]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 11-23]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Marked
[Leukemia Mononuclear TGLS = 7-5]			
[Pigmentation TGLS = 7-5]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 10-22]			
[Leukemia Mononuclear TGLS = 9-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Alveolar/Bronchiolar Adenoma TGLS = 13-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81962

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 5-7]		
	[Leukemia Mononuclear TGLS = 12-3]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
Note: PIGMENT IN MAMMARY GLAND; NOT CODED.			
* Pancreas	Acinus	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[Basophilic Focus TGLS = 3-22]		
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Eosinophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Pigmentation	Marked
[Hemorrhage TGLS = 2-21]			
[Pigmentation TGLS = 2-21]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
Penis			
Note: MARKED ANGIECTASIS IN ONE PARATHYROID GLAND; NOT TABULATED ON TDMS.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 5

DOSE: 2500 PPM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 98-81964

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Mild
* Spleen		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 1-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	Urethra
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
	[Clear Cell Focus TGLS = 4-23]		
	[Hepatodiaphragmatic Nodule TGLS = 3-22]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81966

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith

Atrophy

Marked

Interstit Cell

Hyperplasia

Mild

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Marked
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Minimal
* Testes	Germinal Epith	Atrophy	Marked
		[Atrophy TGLS = 1-7]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81967

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
[Compression TGLS = 3-1]			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Nephropathy	Minimal
[Pigmentation TGLS = 5-5]		Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLS = 6-6]			
[Hyperplasia TGLS = 6-6]			
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
[Alveolar/Bronchiolar Adenoma TGLS = 7-2]		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Preputial Gland		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81968

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Basophilic Focus TGLS = 5-6]		
	[Hyperplasia TGLS = 5-6]		
	[Vacuolization Cytoplasmic TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-22]		
* Preputial Gland		Carcinoma	
		Inflammation	Chronic, Minimal
	Note: PREPUTIAL GLAND CARCINOMA ON SLIDE 21 IS POORLY DIFFERENTIATED (MESENCHYMAL DIFFERENTIATION WITH OSTEOSARCOMATOUS APPEARANCE).		
	[Carcinoma TGLS = 1-21,7-23]		
* Spleen		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:43
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 116	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 2500 PPM	DISP: Terminal Sacrifice	HISTO: 98-81969

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 9-6]		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Moderate
Oral Mucosa		Squamous Cell Papilloma	
		[Squamous Cell Papilloma TGLS = 4-9-1]	
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 2-1]	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-7]	
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81971

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		[Basophilic Focus TGLS = 2-6]	
		[Clear Cell Focus TGLS = 2-6]	
		[Hepatodiaphragmatic Nodule TGLS = 3-21]	
		[Hyperplasia TGLS = 6-6]	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		[Hyperplasia TGLS = 5-2]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:43
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81972

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Colon	* Thymus
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OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 4-22]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Ileum	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
		[Leukemia Mononuclear TGLS = 6-5]	
		[Pigmentation TGLS = 6-5]	
* Liver		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 7-6]	
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
		[Hemorrhage TGLS = 9-2]	
		[Leukemia Mononuclear TGLS = 9-2]	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81826

ORGAN AND ACCOUNTABLE SITE STATUS

Renal	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 10-22]		
[Leukemia Mononuclear TGLS = 8-21]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
* Lymph Node, Mesenteric	Leukemia Mononuclear	
* Mammary Gland	Hyperplasia	Mild
* Preputial Gland	Inflammation	Chronic, Mild
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-22]			
* Brain		Compression	Moderate
[Compression TGLS = 3-1]			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 6-6]			
[Clear Cell Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81974

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Moderate
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear Pigmentation	Moderate
* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Mild Mild
[Adenoma TGLS = 7-7]			
* Urin Bladder			
Note: PROTEINACEOUS CONCRETIONS IN LUMEN OF URINARY BLADDER; NOT CODED ON TDMS.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 679

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Thrombosis	Moderate
Note: HEART THROMBOSIS PRESENT ON SLIDES 5 AND 25.			
* Kidney	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 6-5]			
* Liver	Centrilobular	Necrosis	Moderate
[Necrosis TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Marked
[Hemorrhage TGLS = 9-24]			
[Pigmentation TGLS = 9-24]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-23]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL PRESENT ON SLIDES 7 AND 22.			
[Mesothelioma Malignant TGLS = 4-22]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 679

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80795

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-8]		Inflammation	Chronic, Mild
Skeletal Muscle		Mesothelioma Malignant	Metastatic (Peritoneum)
[Mesothelioma Malignant TGLS = 3-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Germinal Epith	Atrophy	Marked
	Tunic	Mesothelioma Malignant	
[Atrophy TGLS = 10-7]			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 659

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
		Hydrocephalus	Mild
[Compression TGLS = 3-1]			
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 2-5]			
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Marked
[Hyperplasia TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 8-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 659

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80468

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 1-7]

* Urin Bladder

Note: URINARY BLADDER APPEARS ARTIFACTUALLY EDEMATOUS.

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, 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			

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Infarct	Moderate
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
	[Basophilic Focus TGLS = 2-6]		
	[Clear Cell Focus TGLS = 2-6]		
	[Hyperplasia TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Pituitary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-7]	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Kidney	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	* Seminal Vesicle
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 704

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Hydrocephalus	Mild
[Hydrocephalus TGLS = 10-1]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Iliac	Ectasia	Moderate
	Renal	Hemorrhage	Minimal
	Iliac	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Mild
	Renal	Pigmentation	Moderate
[Ectasia TGLS = 7-22]			
[Hemorrhage TGLS = 4-21]			
[Hyperplasia TGLS = 4-21]			
[Hyperplasia TGLS = 7-22]			
[Pigmentation TGLS = 4-21]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 704

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81125

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked
[Inflammation TGLS = 5-7,6-7]			
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Ulcer	Moderate
[Ulcer TGLS = 11-23]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
	[Basophilic Focus TGLS = 2-6]		
	[Hyperplasia TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Hyperplasia TGLS = 2-6]			
[Infiltration Cellular TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 3-8]			
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	Moderate
[Compression TGLS = 6-1]			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Nephropathy	Minimal
[Pigmentation TGLS = 4-5]		Pigmentation	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 2-6]			
[Hyperplasia TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 7-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81983

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 10-7-1]

* Spleen

Fibrosis

Mild

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7,8-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 8-22]			
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Adenoma	
* Brain		Compression	Moderate
[Compression TGLS = 6-1]			
* Epididymis		Atypia Cellular	Moderate
Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
Note: CLEAR CL FOCUS IS ON SLIDE 23.			
[Basophilic Focus TGLS = 8-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-23]			
[Hyperplasia TGLS = 8-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81984

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 9-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Preputial Gland		Carcinoma Inflammation	Chronic, Mild
[Carcinoma TGLS = 2-22]			
* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81985

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 676

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Carcinoma	Metastatic (Thyroid Gland)
		Degeneration	Fatty, Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Carcinoma	Metastatic (Thyroid Gland)
[Carcinoma TGLS = 7-6]			
* Lung		Carcinoma	Metastatic (Thyroid Gland)
		Infiltration Cellular	Histiocyte, Minimal
Note: MODERATE CHRONIC INFLAMMATION ASSOCIATED WITH METASTATIC THYROID GLAND CARCINOMA; NOT TABULATED ON TDMS.			
* Lymph Node, Mandibular		Carcinoma	Metastatic (Thyroid Gland)
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
Mesentery		Carcinoma	Metastatic (Thyroid Gland)
	Fat	Necrosis	Moderate
[Carcinoma TGLS = 6-23]			
[Necrosis TGLS = 4-22]			
* Nose		Foreign Body	
* Pancreas		Carcinoma	Metastatic (Thyroid Gland)
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 676

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80796

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Carcinoma	Metastatic (Thyroid Gland)
		Pigmentation	Moderate
[Carcinoma TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 8-3,9-3]			

PRIMARY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 627

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 3-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
[Mixed Cell Focus TGLS = 4-6]		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 679

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 3-5]			
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH - Thyroid Gland Follicular Cel Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Atrophy	Moderate
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 1-21]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 2-7,4-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	
	Note: PITUITARY GLAND ADENOMA IS DETACHED FROM REST OF GLAND.		
	[Adenoma TGLS = 5-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Adenoma	
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 6-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Testes	Interstitial Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 143

TRT#: 5
DOSE: 2500 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 98-81987

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]
[Atrophy TGLS = 2-7]

Germinal Epith

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 5-1]			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 144

TRT#: 5
DOSE: 2500 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 98-81988

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-7]

* Thymus

Cyst

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 4-21]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7,5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-1]			
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 6-4]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80506

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
[Pigmentation TGLS = 2-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Mild
[Degeneration TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Moderate
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 4-3]			
[Pigmentation TGLS = 4-3]			
* Lymph Node, Mandibular		Ectasia	Mild
* Mammary Gland		Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81990

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Hematopoietic Cell Proliferation

Minimal

Hemorrhage

Mild

Pigmentation

Moderate

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 4-22]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-21]			
* Spleen		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Infarct	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-81993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Intestine Large, Colon

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	[Hepatodiaphragmatic Nodule TGLS = 3-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild

[Atrophy TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 2-21]			
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Cyst	Moderate
	Renal Tubule	Pigmentation	Mild
[Cyst TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 4-3]			
[Pigmentation TGLS = 4-3]			
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81734

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thymus

Note: MILD THYMIC HEMORRHAGE; NOT TABULATED ON TDMS.

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[Basophilic Focus TGLS = 7-25]		
	[Eosinophilic Focus TGLS = 7-25]		
	[Hepatodiaphragmatic Nodule TGLS = 4-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-22,5-24]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-1]		
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 155

TRT#: 7
DOSE: 5000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO: 97-81735

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-21]

* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Moderate

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Mild
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
[Cyst TGLS = 5-1]			
* Preputial Gland		Adenoma	
Note: CYST ASSOCIATED WITH PREPUTIAL GLAND ADENOMA.			
[Adenoma TGLS = 2-8]			
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hemorrhage	Moderate
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81736

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
[Atrophy TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Pheochromocytoma Malignant	Moderate Fatty, Minimal Focal, Minimal
* Adrenal Medulla		Atypia Cellular Cardiomyopathy	Moderate Mild
* Epididymis		Hyperplasia	Mild
* Heart		Pigmentation	Moderate
* Islets, Pancreatic		Basophilic Focus Clear Cell Focus	
* Kidney	Renal Tubule	Hyperplasia	Minimal
* Liver		Hyperplasia Infiltration Cellular Pigmentation	Minimal Histiocyte, Minimal Minimal
* Lung	Bile Duct Alveolar Epith	Adenoma Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Intermed	Pigmentation	Mild
* Preputial Gland		Adenoma	
* Prostate			
* Spleen			
* Testes	Bilateral, Interstit Cell		

[Adenoma TGLS = 1-7,2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 5-5]			
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
[Adenoma TGLS = 1-8]			
* Spleen		Fibrosis	Moderate
		Pigmentation	Moderate
[Fibrosis TGLS = 4-21]			
* Testes	Germinal Epith	Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
Zymbal's Gland		Adenoma	
[Adenoma TGLS = 4-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Hyperplasia	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Carcinoma	Metastatic (Thyroid Gland)
		[Carcinoma TGLS = 3-2]	
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Stomach, Forestomach		Squamous Cell Papilloma	
		[Squamous Cell Papilloma TGLS = 6-21]	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81705

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7,4-7]

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 2-5]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 161

TRT#: 7
DOSE: 5000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 97-81706

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith Interstitial Cell	Atrophy Hyperplasia	Moderate Mild
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[Atrophy TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 595

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	Peripheral Nerve
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 2-5]			
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
Spinal Cord		Cyst Epithelial Inclusion	
* Spleen		Pigmentation	Moderate
[Pigmentation TGLS = 1-6]			
* Testes	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

- Spinal Cord Cyst Epithelial Inclusion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 5-2-1]			
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Moderate
Note: NO LESION OBSERVED TO ACCOUNT FOR ENLARGED MEDIASTINAL LYMPH NODE SEEN AT NECROPSY.			
* Mammary Gland		Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL PRESENT ON SLIDE 7.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 163	TRT#: 7	SEX: Male	DAY ON TEST: 733
	DOSE: 5000 PPM	DISP: Terminal Sacrifice	HISTO: 97-81737

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 1-21]

* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Tunic	Mesothelioma Malignant	

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 693

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Lymphoma Malignant	
* Kidney	Renal Tubule	Dilatation	Moderate
	Renal Tubule	Pigmentation	Mild
[Dilatation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Lymphoma Malignant	
[Eosinophilic Focus TGLS = 14-27]			
[Hepatodiaphragmatic Nodule TGLS = 9-24]			
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 10-25]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-5]			
* Mammary Gland		Hyperplasia	Minimal
Mesentery		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 693

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81062

ORGAN AND ACCOUNTABLE SITE STATUS

Fat	Necrosis	Mild
[Lymphoma Malignant TGLS = 7-22]		
[Necrosis TGLS = 8-23]		
* Pancreas	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-21]		
* Seminal Vesicle	Lymphoma Malignant	
* Spleen	Lymphoma Malignant	
	Pigmentation	Moderate
[Lymphoma Malignant TGLS = 2-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia
		Mild
		Ulcer
		Marked
[Ulcer TGLS = 12-4-1]		
* Stomach, Glandular	Lymphoma Malignant	
	Ulcer	Moderate
[Ulcer TGLS = 12-4-1]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 3-7]		
* Thymus	Lymphoma Malignant	
Zymbal's Gland	Carcinoma	
[Carcinoma TGLS = 11-26]		

PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 591

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Eye		Cataract	Mild
		Hemorrhage	Moderate
[Hemorrhage TGLS = 5-23]			
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
[Fibrosis TGLS = 4-22]			
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
[Atrophy TGLS = 3-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 591

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79909

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thymus			
	Note: MILD THYMIC HEMORRHAGE; NOT TABULATED ON TDMS.		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 4-5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
	[Basophilic Focus TGLS = 5-6]		
	[Clear Cell Focus TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[Infiltration Cellular TGLS = 1-2]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL ALSO ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 3-21]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81739

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell
Tunic

Pigmentation
Adenoma
Mesothelioma Malignant

Moderate

[Adenoma TGLS = 2-7]

* Thymus

Thymoma Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Mild
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 3-6]		
	[Eosinophilic Focus TGLS = 3-6]		
	[Hyperplasia TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81740

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

[Atrophy TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 685

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Rectum

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Leukemia Mononuclear	
		Necrosis	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Leukemia Mononuclear	
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 6-3]		
	[Pigmentation TGLS = 6-3]		
* Mammary Gland		Hyperplasia	Minimal
Mesentery		Accessory Spleen	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 685

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80798

ORGAN AND ACCOUNTABLE SITE STATUS

[Accessory Spleen TGLS = 7-7]

* Pituitary Gland

Pars Distalis

Adenoma

* Preputial Gland

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-6]

* Stomach, Glandular

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
Note: MODERATE HISTIOCYTIC HYPERPLASIA; NOT CODED ON TDMS.			
[Hemorrhage TGLS = 6-5]			
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Ileum	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Esophagus		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Leukemia Mononuclear	
* Liver		Pigmentation	Mild
		Basophilic Focus	
* Lung		Leukemia Mononuclear	
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Pancreatic	Pigmentation	Moderate
		[Leukemia Mononuclear TGLS = 4-7]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-8]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81708

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-7]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

Animal Note: LESIONS OF POLYARTERITIS ON SLIDES 4 AND 7; CONSIDERED TO BE INCIDENTAL FINDING AND NOT CODED ON TDMS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Preputial Gland		Carcinoma	
		Inflammation	Chronic, Mild
	[Carcinoma TGLS = 1-21]		
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Moderate
* Thymus			

Note: TGL 2-3 IS MODERATE THYMIC HEMORRHAGE; CONSIDERED PROBABLY SECONDARY TO CO2 ADMINISTRATION AND NOT TABULATED ON TDMS.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81709

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adren Cortex			
Note: TGL 4-10 IS A CYST; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 3-2-1]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLS = 1-21]			
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Moderate
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Atypia Cellular	Marked
* Kidney		Inflammation	Chronic, Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		[Basophilic Focus TGLS = 3-6]	
		[Clear Cell Focus TGLS = 3-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 2-1]	
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Minimal
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
		[Atrophy TGLS = 1-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Brain		Compression Hydrocephalus	Moderate Mild
[Compression TGLS = 4-1]			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule Renal Tubule	Hyperplasia Pigmentation	Oncocytic, Marked Moderate
* Liver		Basophilic Focus Eosinophilic Focus Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia Infiltration Cellular	Minimal Mixed Cell, Minimal
[Basophilic Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Mild
* Lymph Node, Mandibular		Hemorrhage Pigmentation	Minimal Mild
[Hemorrhage TGLS = 1-8]			
[Pigmentation TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81741

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 496

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Heart	* 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
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Intestine Large, Cecum		Ulcer	Moderate
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver	Centrilobular	Necrosis	Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SEVERAL OTHER SLIDES INCLUDING 4, 5, 7, AND 7-1.			
[Mesothelioma Malignant TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Marked
[Erosion TGLS = 3-4]			
* Testes	Germinal Epith	Atrophy	Moderate
	Tunic	Mesothelioma Malignant	
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Hyperplasia	Oncocytic, Marked
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
	[Basophilic Focus TGLS = 5-6]		
	[Clear Cell Focus TGLS = 5-6]		
	[Hepatodiaphragmatic Nodule TGLS = 3-21]		
	[Hyperplasia TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Carcinoma	Metastatic (Thyroid Gland)
		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-22]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81742

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7] [Atrophy TGLS = 2-7] * Thyroid Gland	Germinal Epith	Atrophy	Moderate
[Carcinoma TGLS = 7-3]	Follicular Cel C Cell	Adenoma Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart			
Note: AORTA IS ON SLIDE 5.			
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Mild
* Liver		Basophilic Focus Clear Cell Focus	
	Bile Duct	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Lung		Pigmentation	Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
* Mammary Gland		Necrosis	Moderate
Mesentery	Fat		
[Necrosis TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81712

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 707

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Moderate
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 6-5]		
* Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-5]		
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 707

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81126

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6,5-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
[Leukemia Mononuclear TGLS = 10-4]		Leukemia Mononuclear	
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 9-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 497

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* 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			

OBSERVATIONS

* Heart [Hyperplasia TGLS = 8-5]	Epicardium	Hyperplasia	Mild
* Liver [Necrosis TGLS = 1-6]	Centrilobular	Basophilic Focus Necrosis	Minimal
* Lung Note: THYMOMA MALIGNANT, METASTATIC WITH OSSEOUS AND/OR SQUAMOUS DIFFERENTIATION. [Thymoma Malignant TGLS = 3-21,6-23,7-2]		Thymoma Malignant	Metastatic (Thymus)
* Lymph Node, Mandibular Skeletal Muscle [Thymoma Malignant TGLS = 5-22]		Pigmentation Thymoma Malignant	Mild Metastatic (Thymus)
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
* Thymus [Thymoma Malignant TGLS = 4-3]		Thymoma Malignant	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 4-22]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Ectasia	Mild
* Mammary Gland		Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS PRESENT ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 181	TRT#: 7	SEX: Male	DAY ON TEST: 733
	DOSE: 5000 PPM	DISP: Terminal Sacrifice	HISTO: 97-81743

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
	Tunic	Mesothelioma Malignant	
	[Adenoma TGLS = 2-7]		
	[Atrophy TGLS = 3-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Intestine Large, Colon

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 3-6]		
	[Eosinophilic Focus TGLS = 2-21]		
	[Hyperplasia TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland			
Note: MODERATE GLIOSIS IN PARS NERVOSA; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81744

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1,4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
Note: CARDIOMYOPATHY INCLUDES AREA OF ANITSCHKOW CELL PROLIFERATION IN MYOCARDIUM.			
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Mild
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 183

TRT#: 7
DOSE: 5000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO: 97-81745

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith
Interstit Cell

Atrophy
Hyperplasia

Marked
Moderate

[Atrophy TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 676

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pituitary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
[Basophilic Focus TGLS = 2-6]			
[Hyperplasia TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
Peritoneum		Inflammation	Chronic, Minimal
* Preputial Gland		Carcinoma	
		Inflammation	Chronic, Mild
[Carcinoma TGLS = 1-21]			
* Testes	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Epididymis		Atypia Cellular	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Infarct	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hemorrhage	Minimal
	Bile Duct	Hyperplasia	Mild
	[Hemorrhage TGLS = 3-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-1]		
* Preputial Gland		Carcinoma	
		Inflammation	Chronic, Minimal
	[Carcinoma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81746

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Pituitary Gland
-----------------	-------------------

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Cyst	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 4-21]		Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Preputial Gland		Inflammation	Chronic, Marked
[Inflammation TGLS = 3-8]			
* Prostate		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Moderate
Note: TGL 6-6 ATTRIBUTED TO MODERATE HYPERPLASIA OF LYMPHOID FOLLICLES; CONSIDERED TO BE AN INCIDENTAL FINDING AND NOT CODED ON TDMS.			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81747

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 617

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* 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	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Liver	Hepatocyte	Depletion Glycogen	Diffuse, Marked
	Bile Duct	Hyperplasia	Mild
	Kupffer Cell	Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Prostate		Inflammation	Chronic, Marked
	[Inflammation TGLS = 1-7]		
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
		Hydrocephalus	Mild
	[Compression TGLS = 5-1]		
	[Hydrocephalus TGLS = 10-1]		
* Epididymis		Atypia Cellular	Mild
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLS = 11-23]		
* Kidney	Renal Tubule	Hyaline Droplet	Marked
	[Hyaline Droplet TGLS = 3-5]		
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-22,6-3,9-21,12-2]	Infiltration Cellular	Histiocyte, Minimal
* Lym Node Mesen			
	Note: MODERATE HISTIOCYTIC INFILTRATE; NOT CODED ON TDMS.		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-1]		
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81713

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Moderate
* Spleen		Accessory Spleen	
		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 682

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Pituitary Gland	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 4-22]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Schwannoma Malignant	
	[Schwannoma Malignant TGLS = 1-21,1-21.1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Moderate
	[Atrophy TGLS = 3-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 682

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80800

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Salivary Glands Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Compression	Fatty, Mild Focal, Mild Moderate
* Brain [Compression TGLS = 3-1]			
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Nephropathy Pigmentation Basophilic Focus	Minimal Mild
* Liver		Infiltration Cellular	Histiocyte, Minimal
* Lung		Ectasia	Mild
* Lymph Node, Mandibular		Hyperplasia	Minimal
* Mammary Gland		Adenoma	
* Pituitary Gland [Adenoma TGLS = 4-1]	Pars Distalis		
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Fibrosis Hematopoietic Cell Proliferation Pigmentation	Marked Mild Marked
[Fibrosis TGLS = 2-21]			
* Testes [Adenoma TGLS = 1-7,5-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81748

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Mild
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81749

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Hyperplasia	Oncocytic, Moderate
	Renal Tubule	Nephropathy	Minimal
* Liver	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
	[Basophilic Focus TGLS = 2-6]		
	[Clear Cell Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-21]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81750

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Note: MILD FOLLICULAR CELL HYPERPLASIA; CONSIDERED INCIDENTAL FINDING AND NOT TABULATED ON TDMS.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Marked
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-21]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 3-7]			
[Atrophy TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81715

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
	[Pigmentation TGLS = 4-5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 3-6]		
	[Eosinophilic Focus TGLS = 3-6]		
	[Hyperplasia TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	[Cyst TGLS = 1-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Minimal
* Testes	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81716

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 3-5]			
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-21]			
* Spleen		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
[Adenoma TGLS = 1-21]			
* Testes	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 5-23]	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
	Note: AREAS OF HEMORRHAGE AND FIBROSIS ASSOCIATED WITH THE MESENTERIC FAT NECROSIS; NOT CODED ON TDMS.		
	[Necrosis TGLS = 1-21]		
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
	[Fibrosis TGLS = 4-22]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7,3-7]		
* Trachea			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81719

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MILD CHRONIC INFLAMMATION; NOT CODED ON TDMS.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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	* Nose	* Pancreas	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
	Bilateral	Adenoma	
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81720

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 97-81721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-21]			
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney	Cyst	Moderate
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]		
[Clear Cell Focus TGLS = 2-6]		
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular	Pigmentation	Mild
* Mammary Gland	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]		
* Spleen	Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: 98-82166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
		[Hyperplasia TGLS = 1-8]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
		[Hematopoietic Cell Proliferation TGLS = 2-6]	
		[Leukemia Mononuclear TGLS = 2-6]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Minimal
* Brain		Compression	Moderate
		Hydrocephalus	Moderate
		[Compression TGLS = 5-1]	
		[Hydrocephalus TGLS = 6-1]	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
	Kupffer Cell	Pigmentation	Moderate
		Note: CHRONIC INFLAMMATION OF MILD TO MODERATE SEVERITY ASSOCIATED WITH PIGMENTED KUPFFER CELLS; NOT TABULATED ON TDMS.	
		[Pigmentation TGLS = 3-6]	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Moderate
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 2-21]	
		[Hyperplasia TGLS = 1-8]	
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 4-1]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 97-81830

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland		Hyperplasia	Marked
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 574

HISTO: 97-79475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adren Cortex

Note: MILD DIFFUSE CORTICAL HYPERPLASIA; NOT TABULATED ON TDMS.

* Bone	Femur	Osteopetrosis	Minimal
* Bone Marrow		Hyperplasia	Marked
* Kidney		Hydronephrosis	Mild
	Renal Tubule	Nephropathy	Minimal
	[Hydronephrosis TGLS = 4-5]	Pigmentation	Mild
* Liver		Fatty Change	Mild
	Centrilobular	Necrosis	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
	[Hyperplasia TGLS = 6-22]	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
	[Pigmentation TGLS = 2-8]		
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	Moderate
	[Angiectasis TGLS = 5-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 574

HISTO: 97-79475

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Marked

* Uterus

Schwannoma Malignant

[Schwannoma Malignant TGLS = 3-21]

PRIMARY CAUSE OF DEATH

- Uterus Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Mild
[Adenoma TGLS = 1-21]			
[Inflammation TGLS = 2-8]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Ectasia	Mild
		Leukemia Mononuclear	
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 3-22]			
[Hyperplasia TGLS = 6-8]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82168

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 5-1]

* Spleen

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		Hyperplasia	Mild
	[Carcinoma TGLS = 4-23]		
	[Fibroadenoma TGLS = 2-21,3-22]		
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-1]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 695

HISTO: 97-81063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose | * Salivary Glands |
| * Skin | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|---------------------|--------|
| * Parathyroid Gland | Vagina |
|---------------------|--------|

OBSERVATIONS

- | | | |
|---|---|----------|
| * Adrenal Cortex | Leukemia Mononuclear
Necrosis | Mild |
| [Leukemia Mononuclear TGLS = 2-10] | | |
| * Adrenal Medulla | Leukemia Mononuclear | |
| * Bone Marrow | Leukemia Mononuclear | |
| * Brain | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-1,6-1] | | |
| * Heart | Leukemia Mononuclear | |
| * Kidney | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-5] | | |
| * Liver | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lung | Leukemia Mononuclear | |
| * Lymph Node, Mandibular | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| * Mammary Gland | Hyperplasia | Mild |
| [Hyperplasia TGLS = 7-8] | | |
| * Ovary | Cyst
Leukemia Mononuclear | Moderate |
| * Pancreas | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis
Cyst
Leukemia Mononuclear | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 2

SEX: Female

DAY ON TEST: 695

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81063

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 8-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Ulcer	Minimal
* Stomach, Glandular		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 655

HISTO: 97-80469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Cortex			
Note: MILD DIFFUSE HYPERPLASIA; NOT CODED ON TDMS.			
* Bone	Femur	Osteopetrosis	Mild
* Kidney	Renal Tubule	Mineralization	Minimal
		Pigmentation	Minimal
	[Pigmentation TGLS = 3-5]		
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 4-6,4-6-1]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lym Node Mesen			
Note: MESENTERIC NODE IS ON SLIDE 4.			
Lymph Node		Hemorrhage	Moderate
		Pigmentation	Moderate
	[Hemorrhage TGLS = 8-22]		
	[Pigmentation TGLS = 8-22]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 1-21]		
	[Hyperplasia TGLS = 7-8]		
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 209

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 655
HISTO: 97-80469

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 5-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Uterus		Polyp Stromal	

Note: UTERINE STROMAL POLYP IS MARKEDLY NECROTIC AND HEMORRHAGIC, POSSIBLY DUE TO TORSION.

[Polyp Stromal TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Moderate
* Brain		Astrocytoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		[Basophilic Focus TGLS = 5-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 1-21]	
		[Hyperplasia TGLS = 2-8]	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
		[Hyperplasia TGLS = 3-1]	
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		[Hyperplasia TGLS = 4-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82171

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal 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 | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|---|---------------|----------------------------------|------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone | Cranium | Osteopetrosis | Mild |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Leukemia Mononuclear | |
| | | | |
| | | | |
| [Basophilic Focus TGLS = 5-6] | | | |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| | | Metaplasia | Osseous, Minimal |
| | | Hyperplasia | Mild |
| * Mammary Gland | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Leukemia Mononuclear | |
| | | | |
| | | | |
| [Hematopoietic Cell Proliferation TGLS = 3-6] | | | |
| [Leukemia Mononuclear TGLS = 3-6,4-21] | | | |
| * Uterus | | Polyp Stromal | |
| [Polyp Stromal TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 2

SEX: Female

DAY ON TEST: 497

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
* Uterus		Inflammation	Chronic, Moderate

Note: MODERATE STROMAL AND GLANDULAR HYPERPLASIA CONSIDERED SECONDARY TO UTERINE PROLAPSE; NOT CODED ON TDMS.

[Inflammation TGLS = 1-7-1,3-7-1]

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-10]			
* Clitoral Gland		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 4-6]		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 5-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Cervix	Hyperplasia	Marked
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Kidney	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Marked
* Brain		Compression	Minimal
	[Compression TGLS = 5-1]		
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 3-6]	Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-1]		
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 218

TRT#: 2

SEX: Female

DAY ON TEST: 504

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 2-1]			
* Kidney	Renal Tubule	Infarct	Minimal
		Pigmentation	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 4-21]		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Mild
[Ulcer TGLS = 5-4]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Ovary
* Pancreas	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Minimal
	[Osteopetrosis TGLS = 4-21]		
* Clitoral Gland		Hyperplasia	Marked
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 3-6]	Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-8]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Ovary		Cyst	Moderate
Note: MODERATE CEROID-LIKE PIGMENT IN BOTH OVARIES; NOT CODED ON TDMS.			
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 693

HISTO: 97-81064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Hepatodiaphragmatic Nodule TGLS = 6-23]			
[Mixed Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-22]			
* Nose		Inflammation	Chronic, Mild
* Ovary			
Note: BILATERAL LYMPHOHISTIOCYTIC INFILTRATE; NOT CODED ON TDMS.			
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 2-21]			

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: 98-82179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: 98-82180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 2-1]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: 98-82181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
[Osteopetrosis TGLS = 3-21]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Marked
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 1-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart	Endocardium	Fibrosis	Moderate
	Endocardium	Schwannoma Malignant	
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 1-21]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
[Cyst TGLS = 2-1]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: 98-82185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
Eye		Inflammation	Chronic, Marked
[Inflammation TGLS = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 5-6]	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Infiltration Cellular	Histiocyte, Mild
		Sarcoma	Metastatic (Skin)
Lymph Node	Pancreatic	Ectasia	Mild
[Ectasia TGLS = 4-7]	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 4-7]			
* Lymph Node, Mandibular		Ectasia	Mild
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Pancreas		Atrophy	Minimal
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 6-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: 98-82185

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

[Hematopoietic Cell Proliferation TGLS = 3-6]

* Stomach, Forestomach

Hematopoietic Cell Proliferation

Pigmentation

Edema

Moderate

Moderate

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
Note: DILATED TUBULES ARE IN MEDULLA (COLLECTING TUBULES).			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Nose	Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 230

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 380

HISTO: 96-77628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Osteopetrosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
[Leukemia Mononuclear TGLS = 2-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Note: MODERATE LYMPHOID NECROSIS CONSIDERED SECONDARY TO LEUKEMIA MONUC; NOT CODED ON TDMS.			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 231

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Marked
	[Osteopetrosis TGLS = 4-22]		
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Ovary		Cyst	Moderate
	[Cyst TGLS = 2-7]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
	[Cyst TGLS = 5-1]		
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 232

TRT#: 2

SEX: Female

DAY ON TEST: 591

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-79910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone	Femur	Osteopetrosis	Marked
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-21]			
* Nose		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Kidney	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
[Clear Cell Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

Note: PITUITARY GLAND ADENOMA IS MODERATELY ANAPLASTIC.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland [Adenoma TGLS = 2-8]		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver [Basophilic Focus TGLS = 4-6] [Hepatodiaphragmatic Nodule TGLS = 5-21]		Basophilic Focus Hepatodiaphragmatic Nodule Infiltration Cellular	 Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland [Hyperplasia TGLS = 1-8]		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus [Polyp Stromal TGLS = 3-7]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 2

SEX: Female

DAY ON TEST: 712

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-81370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Mild
* Liver		Basophilic Focus	
	Centrilobular	Necrosis	Moderate
	[Basophilic Focus TGLS = 4-6]		
	[Necrosis TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Moderate
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21]		
	[Hyperplasia TGLS = 2-8]		
Oral Mucosa		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 6-9-1]		
* Pancreas		Atrophy	Moderate
* Spleen		Pigmentation	Marked
	Note: TGL 3-6 IS MILD RED PULP DEPLETION; ENTRY NOT TABULATED ON TDMS.		
* Stomach, Forestomach		Erosion	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma
 CONTRIBUTORY CAUSE OF DEATH - Oral Mucosa Squamous Cell Papilloma

Animal Note: JEJUNUM IS ON SLIDE 4 AND COLON IS ON SLIDE 3.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 237

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: 98-82191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
[Osteopetrosis TGLS = 4-22]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-21]			
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 2

SEX: Female

DAY ON TEST: 708

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-5]		
* Liver		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLS = 5-6]		
	[Pigmentation TGLS = 5-6]		
	[Vacuolization Cytoplasmic TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-8]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 6-7]		
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 239	TRT#: 2	SEX: Female	DAY ON TEST: 708
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 97-81127

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
Note: CYST APPEARS TO BE CYSTIC DILATATION OF RATHKES CLEFT. [Adenoma TGLS = 3-1]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
		Pigmentation	Mild
[Fibrosis TGLS = 4-6] [Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Marked
	[Osteopetrosis TGLS = 8-23]		
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
	[Basophilic Focus TGLS = 4-6]		
	[Infiltration Cellular TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-8]		
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 5-21,7-22]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 9-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hemangioma	
	[Hemangioma TGLS = 2-24]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82193

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone	Femur	Osteopetrosis	Mild
* Clitoral Gland		Adenoma	
		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Focal, Minimal
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone	Femur	Osteopetrosis	Mild
* Clitoral Gland		Adenoma	
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21]			
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	Tongue
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
Note: FINELY GRANULAR REFRACTILE BODIES IN CYTOPLASM OF RENAL TUBULES; CONSIDERED TO BE PROCESSING/STAINING ARTIFACT.			
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 2-21]	
		[Hyperplasia TGLS = 1-8]	
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 4-1]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6]	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Tongue			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82196

ORGAN AND ACCOUNTABLE SITE STATUS

Note: A FEW MAST CELLS AND MILDLY DILATED BLOOD VESSELS IN MUSCULARIS OF TONGUE; NOT CONSIDERED PATHOLOGICAL.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 244

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	Tongue	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-21]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hemorrhage	Minimal
		Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
[Hematopoietic Cell Proliferation TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82197

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 245

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Moderate
* Bone	Cranium	Osteopetrosis	Mild
* Clitoral Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
[Cyst TGLS = 2-7]			
[Inflammation TGLS = 2-7]			
Eye	Retina	Cataract	Moderate
		Degeneration	Marked
[Cataract TGLS = 1-21]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82198

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Cyst	Fatty, Minimal Focal, Minimal Moderate
* Clitoral Gland		Nephropathy	Minimal
* Kidney		Basophilic Focus Clear Cell Focus Infiltration Cellular	Mixed Cell, Minimal
* Liver			
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Skin	Epidermis	Hyperplasia Ulcer	Mild Mild
[Hyperplasia TGLS = 1-21]			
[Ulcer TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82199

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 247

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Marked
			[Osteopetrosis TGLS = 6-9]
			[Osteopetrosis TGLS = 4-23]
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
			[Fibroadenoma TGLS = 1-21]
			[Hyperplasia TGLS = 3-8]
Mesentery	Fat	Necrosis	Moderate
			[Necrosis TGLS = 2-22]
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 676

HISTO: 98-80801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
	[Infiltration Cellular TGLS = 3-6,5-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Moderate
		Hyperplasia	Lymphoid, Moderate
	[Ectasia TGLS = 1-8]		
	[Hyperplasia TGLS = 1-8]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
	[Pigmentation TGLS = 2-21]		
Tongue		Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLS = 4-22]		

PRIMARY CAUSE OF DEATH - Tongue Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 97-81831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear	Fatty, Minimal
[Leukemia Mononuclear TGLS = 11-10]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
[Compression TGLS = 5-1]			
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 2-8]			
* Kidney	Renal Tubule	Hyaline Droplet Leukemia Mononuclear	Moderate
	Renal Tubule	Mineralization Pigmentation	Minimal Moderate
[Leukemia Mononuclear TGLS = 8-5]			
[Pigmentation TGLS = 8-5]			
* Liver		Infiltration Cellular Leukemia Mononuclear	Mixed Cell, Mild
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 9-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 97-81831

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 12-3]

* Lymph Node, Mandibular

Leukemia Mononuclear

Pigmentation

Mild

* Lymph Node, Mesenteric

Pigmentation

Mild

* Mammary Gland

Hyperplasia

Moderate

[Hyperplasia TGLS = 1-8]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Clitoral Gland Carcinoma; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 250

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 2-6]	Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 2-1]			
* Spleen		Infiltration Cellular	Mixed Cell, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Inflammation	Fatty, Minimal Focal, Minimal Chronic, Marked
* Clitoral Gland [Inflammation TGLS = 2-8]			
* Kidney	Renal Tubule	Hyaline Droplet Mineralization Pigmentation	Mild Minimal Minimal
	Renal Tubule	Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
* Liver [Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage Pigmentation	Minimal Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
[Osteopetrosis TGLS = 5-22]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Osteopetrosis Adenoma	Fatty, Mild Focal, Moderate Mild
* Bone	Femur		
* Clitoral Gland			
[Adenoma TGLS = 1-8]			
* Liver		Basophilic Focus Clear Cell Focus Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
Note: FIBROADENOMA IS PRESENT ON SLIDE 8 SEPARATE FROM REGULAR MAMMARY GLAND SECTION.			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Kidney	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Marked
	[Osteopetrosis TGLS = 7-23]		
	[Osteopetrosis TGLS = 6-9]		
* Clitoral Gland		Hyperplasia	Marked
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLS = 5-6]		
	[Hepatodiaphragmatic Nodule TGLS = 4-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
	[Pigmentation TGLS = 1-8]		
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-21]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 3-7]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone	Femur	Osteopetrosis	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 5-8]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 2-7]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 1-21]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone	Cranium	Osteopetrosis	Marked
	Femur	Osteopetrosis	Marked
	[Osteopetrosis TGLS = 3-9]		
	[Osteopetrosis TGLS = 2-21]		
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 1-6]		
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Marked
	[Hemorrhage TGLS = 4-3]		
	[Pigmentation TGLS = 4-3]		
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic, Moderate
	Note: INFLAMMATION IS IN NASOLACRIMAL DUCT.		
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 675

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Minimal
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
	[Hyperplasia TGLS = 4-1]		
* Spleen		Pigmentation	Moderate
Tongue		Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLS = 3-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 675

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80802

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Tongue Squamous Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Intestine Large, Cecum

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy	Fatty, Moderate Focal, Moderate
* Bone	Cranium Femur	Osteopetrosis Osteopetrosis	Moderate Moderate
[Osteopetrosis TGLS = 3-21]			
* Kidney	Renal Tubule Renal Tubule	Hyaline Droplet Pigmentation	Minimal Minimal
* Liver		Basophilic Focus Clear Cell Focus Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis Pars Distalis	Angiectasis Cyst	Moderate Moderate
[Angiectasis TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82135

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 7-23]		
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Eosinophilic Focus TGLS = 3-6]		
	[Hepatodiaphragmatic Nodule TGLS = 6-22]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 2-21]		
	[Hyperplasia TGLS = 1-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene
CAS Number: 99-99-0

Date Report Requested: 10/21/2014
Time Report Requested: 22:06:44
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82136

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone	Cranium	Osteopetrosis	Mild
[Osteopetrosis TGLS = 5-21]			
* Clitoral Gland		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Mineralization	Minimal
		Pigmentation	Minimal
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-2]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Marked
		Hydrocephalus	Moderate
[Compression TGLS = 6-1]			
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Infiltration Cellular TGLS = 5-6]			
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 4-21]			
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Spleen		Pigmentation	Moderate
[Pigmentation TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 702

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 6-5]			
* Liver	Kupffer Cell	Leukemia Mononuclear	
		Pigmentation	Mild
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 7-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Leukemia Mononuclear	Moderate Fatty, Mild Focal, Mild
[Leukemia Mononuclear TGLS = 4-10]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyaline Droplet Mineralization Nephropathy Pigmentation	Moderate Minimal Minimal Mild
	Renal Tubule	Basophilic Focus	
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear Regeneration	Mild Marked
[Basophilic Focus TGLS = 13-6]			
[Leukemia Mononuclear TGLS = 6-6,13-6]			
[Regeneration TGLS = 7-22,8-23,9-24]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Leukemia Mononuclear	Marked Histiocyte, Mild
[Hyperplasia TGLS = 12-2]			
Lymph Node	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82138

ORGAN AND ACCOUNTABLE SITE STATUS

Renal	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 10-25]		
[Pigmentation TGLS = 10-25]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
* Lymph Node, Mesenteric	Leukemia Mononuclear	
* Mammary Gland	Fibroadenoma	
	Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-21]		
[Hyperplasia TGLS = 1-8]		
* Ovary	Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst
[Cyst TGLS = 11-1]		Moderate
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82139

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 10-9]			
* Intestine Large, Cecum		Edema	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Marked
	Renal Tubule	Pigmentation	Mild
* Liver		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 2-6]			
* Lung		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 4-2]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
[Pigmentation TGLS = 7-8]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21]			
[Hyperplasia TGLS = 8-8]			
* Ovary		Histiocytic Sarcoma	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
[Angiectasis TGLS = 9-1]			
* Skin		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 13-24]			
* Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81832

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 5-6]

* Thymus

Histiocytic Sarcoma

[Histiocytic Sarcoma TGLS = 3-3]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Fibroma

[Fibroma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Carcinoma	Moderate Fatty, Moderate
* Clitoral Gland [Carcinoma TGLS = 2-21]			
* Kidney	Renal Tubule Renal Tubule	Hyaline Droplet Pigmentation	Moderate Minimal
* Liver [Basophilic Focus TGLS = 3-6]		Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland [Hyperplasia TGLS = 1-8]		Hyperplasia	Mild
* Pituitary Gland [Adenoma TGLS = 4-1]	Pars Distalis	Adenoma	
* Spleen		Fibrosis Pigmentation	Mild Moderate
* Uterus	Endometrium	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
		Hyperplasia	Mild
[Adenoma TGLS = 2-21]			
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 5-21]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82143

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	Kupffer Cell	Pigmentation	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
			[Hyperplasia TGLS = 1-8]
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLS = 4-1]
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Brain		Compression	Mild
[Compression TGLS = 6-1]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21]			
[Hyperplasia TGLS = 2-8]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82145

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:44

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
	[Pigmentation TGLS = 2-5]		
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	[Angiectasis TGLS = 1-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 701

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy Leukemia Mononuclear	Focal, Mild
Note: EXCESSIVE PIGMENT IN ADRENAL CORTEX (CONSIDERED SECONDARY TO LEUKEMIA); NOT CODED ON TDMS.			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression Hydrocephalus	Moderate Moderate
[Compression TGLS = 13-1]			
* Clitoral Gland		Adenoma Inflammation	Chronic, Marked
[Adenoma TGLS = 3-21]			
[Inflammation TGLS = 3-21]			
* Kidney	Renal Tubule Renal Tubule	Dilatation Hyaline Droplet Leukemia Mononuclear	Moderate Moderate
	Renal Tubule	Nephropathy Pigmentation	Minimal Moderate
[Leukemia Mononuclear TGLS = 9-5]			
[Pigmentation TGLS = 9-5]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 701

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81066

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3]			
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mandibular		Ectasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-5]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 7-22]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 12-1]			
[Leukemia Mononuclear TGLS = 12-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Stomach, Glandular		Erosion	Minimal
[Erosion TGLS = 14-4]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone	Femur	Osteopetrosis	Minimal
* Brain		Astrocytoma Malignant	
* Clitoral Gland		Inflammation	Chronic, Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Mineralization	Minimal
		Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Carcinoma	
[Carcinoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 1-8]		
* Spleen		Pigmentation	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Mineralization	Minimal
[Pigmentation TGLS = 3-5]		Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Marked
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
		[Basophilic Focus TGLS = 5-6]	
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
		Note: HEMOSIDERIN-CONTAINING MACROPHAGES IN PARS DISTALIS.	
* Skin	Subcut Tiss	Fibrosarcoma	
		[Fibrosarcoma TGLS = 2-21]	
* Spleen		Hematopoietic Cell Proliferation	Marked
		[Hematopoietic Cell Proliferation TGLS = 4-6]	
Tooth		Malformation	
		[Malformation TGLS = 1-22]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81833

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Tooth Malformation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone [Osteopetrosis TGLS = 4-23]	Cranium	Osteopetrosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland [Carcinoma TGLS = 1-21]		Carcinoma	
* Liver [Leukemia Mononuclear TGLS = 3-6]		Basophilic Focus Clear Cell Focus Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland [Fibroadenoma TGLS = 2-22]		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen [Leukemia Mononuclear TGLS = 5-6]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Compression	Moderate
		Hydrocephalus	Minimal
[Compression TGLS = 4-1]			
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		[Basophilic Focus TGLS = 2-6]	
		[Clear Cell Focus TGLS = 2-6]	
		[Hepatodiaphragmatic Nodule TGLS = 3-21]	
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
		[Hyperplasia TGLS = 1-8]	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
		[Hyperplasia TGLS = 4-1]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 659

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
	[Leukemia Mononuclear TGLS = 4-5]		
	[Pigmentation TGLS = 4-5]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 6-8]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
	[Leukemia Mononuclear TGLS = 2-6]		
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 659

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80470

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 387

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-78203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Pancreas
- Skeletal Muscle
- * Thymus
- * Uterus
- * Bone
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Parathyroid Gland
- * Skin
- * Thyroid Gland
- * Brain
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Nose
- * Pituitary Gland
- * Stomach, Forestomach
- * Trachea
- * Clitoral Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Ovary
- * Salivary Glands
- * Stomach, Glandular
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Heart
- * Kidney
 - Renal Tubule
 - [Leukemia Mononuclear TGLS = 3-5]
 - [Pigmentation TGLS = 3-5]
- * Liver
- * Lung
- Lymph Node
 - Iliac
 - Mediastinal
 - Pancreatic
 - Iliac
 - [Leukemia Mononuclear TGLS = 4-21]
 - [Leukemia Mononuclear TGLS = 5-22]
 - [Leukemia Mononuclear TGLS = 7-23]
- * Lymph Node, Mesenteric
- Spinal Cord
- * Spleen
 - [Leukemia Mononuclear TGLS = 1-6]

- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Pigmentation
- Mild
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Pigmentation
- Moderate
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-21]			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 6-6]		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-23]		Hyperplasia	Marked
[Hyperplasia TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Cyst	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82153

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5-7]

[Polyp Stromal TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 6-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82154

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Moderate
[Basophilic Focus TGLS = 9-6]			
[Eosinophilic Focus TGLS = 6-6]			
[Hepatodiaphragmatic Nodule TGLS = 7-24]			
[Infiltration Cellular TGLS = 9-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Renal	Pigmentation	Moderate
[Pigmentation TGLS = 5-23]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 3-22]			
[Hyperplasia TGLS = 2-8]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 8-25]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82155

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 10-1]

* Skin

Epidermis

Hyperplasia

Mild

[Hyperplasia TGLS = 1-21]

Ulcer

Minimal

[Ulcer TGLS = 1-21]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 3-22]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82156

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 5-1]

[Hyperplasia TGLS = 5-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 3-21]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Brain		Compression	Mild
		Hydrocephalus	Moderate
[Compression TGLS = 3-1]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Skin		Cyst Epithelial Inclusion	
* Spleen		Pigmentation	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 629

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Malignant TGLS = 1-21]		Pheochromocytoma Malignant	
* Kidney		Mineralization	Minimal
* Liver [Basophilic Focus TGLS = 2-6]		Basophilic Focus	
* Mammary Gland [Hyperplasia TGLS = 4-8]		Hyperplasia	Mild
* Pituitary Gland [Adenoma TGLS = 3-1]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 528

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* 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	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Salivary Glands
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Glomerulosclerosis	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Moderate
	[Leukemia Mononuclear TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia	Moderate Fatty, Minimal Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet Mineralization	Minimal Minimal
* Liver	Renal Tubule	Pigmentation Basophilic Focus Infiltration Cellular	Minimal Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Intermed Pars Distalis	Cyst Hyperplasia	Moderate Focal, Minimal
Note: MULTIPLE TUBULAR FORMATIONS IN PARS NERVOSA; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 577

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	Vagina		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
		Leukemia Mononuclear	
		Necrosis	Moderate
* Bone	Cranium	Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Leukemia Mononuclear	
		Pigmentation	Moderate
	[Leukemia Mononuclear TGLS = 4-5]		
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
	[Leukemia Mononuclear TGLS = 7-6]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Mammary Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-1]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 577

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79627

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* 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 Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-10]			
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]		Pigmentation	Mild
[Pigmentation TGLS = 4-5]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Pigmentation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
Note: MODERATE FIBROSIS IN ADRENAL MEDULLA; CONSIDERED SECONDARY TO LEUKEMIA MONUC			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82160

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Minimal
* Bone	Cranium	Osteopetrosis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
	[Pigmentation TGLS = 7-5]		
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 6-6]		
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-1]		
* Skin	Epidermis	Hyperplasia	Moderate
	Note: MILD EXUDATE PRESENT ON SURFACE OF EPIDERMIS; MORPHOLOGY NOT AVAILABLE ON TDMS.		
	[Hyperplasia TGLS = 3-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain		Compression	Mild
[Compression TGLS = 4-1]			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-22,3-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Skin	Epidermis	Hyperplasia	Mild
		Ulcer	Moderate
[Hyperplasia TGLS = 1-21]			
[Ulcer TGLS = 1-21]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 298

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Skin	* Thyroid Gland
* Trachea	Vagina		

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Marked Focal, Mild
* Bone Marrow			
Note: MODERATE MYELOFIBROSIS (ONLY ANIMAL WITH THIS LESION IN STUDY); NOT TABULATED ON TDMS.			
* Intestine Large, Cecum		Lymphoma Malignant	
* Intestine Large, Colon		Lymphoma Malignant	
* Kidney	Renal Tubule	Hyaline Droplet Lymphoma Malignant Mineralization	Minimal Minimal
	Renal Tubule	Nephropathy Pigmentation	Mild Minimal
* Liver	Hepatocyte	Hepatodiaphragmatic Nodule Infiltration Cellular Lymphoma Malignant Vacuolization Cytoplasmic	Mixed Cell, Mild Moderate
[Hepatodiaphragmatic Nodule TGLS = 9-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal Renal	Lymphoma Malignant Lymphoma Malignant	
[Lymphoma Malignant TGLS = 11-25]			
[Lymphoma Malignant TGLS = 15-3]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-8]			
* Lymph Node, Mesenteric		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81834

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 10-24]

* Mammary Gland

Fibroadenoma
Hyperplasia

Multiple
Mild

[Fibroadenoma TGLS = 2-21,3-22]

[Hyperplasia TGLS = 1-8]

* Ovary

Lymphoma Malignant

* Pancreas

Lymphoma Malignant

[Lymphoma Malignant TGLS = 8-7]

* Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Hyperplasia

Focal, Mild

[Angiectasis TGLS = 13-1]

[Hyperplasia TGLS = 13-1]

* Salivary Glands

Lymphoma Malignant

* Spleen

Pigmentation

Mild

* Stomach, Forestomach

Lymphoma Malignant

* Stomach, Glandular

Erosion

Moderate

Lymphoma Malignant

[Erosion TGLS = 16-4]

* Thymus

Lymphoma Malignant

[Lymphoma Malignant TGLS = 12-2]

* Urinary Bladder

Lymphoma Malignant

* Uterus

Lymphoma Malignant

[Lymphoma Malignant TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Thymus Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
		[Adenoma TGLS = 4-1]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Uterus		Polyp Stromal	
		[Polyp Stromal TGLS = 1-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 721

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-81828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	Skeletal Muscle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
		Sarcoma	
Note: TGL 3-21 CONSIDERED TO BE MALIGNANT RENAL MESENCHYMAL TUMOR; MORPHOLOGY NOT AVAILABLE ON TDMS. [Sarcoma TGLS = 3-21]			
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
Skel Muscle			
Note: TGL 4 IS MODERATE HEMORRHAGE; DIAGNOSIS NOT TABULATED ON TDMS.			
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet Mineralization	Mild Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 4-6]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21]		
	[Hyperplasia TGLS = 2-8]		
Oral Mucosa		Squamous Cell Carcinoma	
	Note: SQUAM CEL CARC ALSO PRESENT ON SLIDE 9-1.		
	[Squamous Cell Carcinoma TGLS = 5-22]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Adenoma	Moderate Fatty, Minimal Focal, Mild
* Clitoral Gland [Adenoma TGLS = 1-8]			
* Kidney	Renal Tubule	Hyaline Droplet Mineralization Pigmentation	Mild Minimal Mild
* Liver	Renal Tubule	Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatodiaphragmatic Nodule Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82081

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 676

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
		[Basophilic Focus TGLS = 4-6]	
		[Hepatodiaphragmatic Nodule TGLS = 6-23]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 1-21]	
		[Hyperplasia TGLS = 7-8]	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
		[Adenoma TGLS = 3-1]	
* Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 676

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80803

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Pigmentation

Marked

[Fibrosis TGLS = 5-22]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Hyperplasia Carcinoma	Moderate Focal, Mild
* Clitoral Gland [Carcinoma TGLS = 2-21]			
* Kidney	Renal Tubule	Hyaline Droplet Mineralization Pigmentation	Moderate Minimal Mild
* Liver	Renal Tubule	Basophilic Focus Clear Cell Focus Infiltration Cellular Mixed Cell Focus	Mixed Cell, Mild
[Basophilic Focus TGLS = 5-6] [Mixed Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage Pigmentation	Minimal Moderate
[Hemorrhage TGLS = 1-8] [Pigmentation TGLS = 1-8]			
* Mammary Gland		Fibroadenoma Hyperplasia	Minimal
[Fibroadenoma TGLS = 3-22]			
* Nose		Foreign Body	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82082

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy	Fatty, Mild Focal, Mild
* Kidney	Renal Tubule	Hyaline Droplet Mineralization	Mild Mild
* Liver	Renal Tubule	Pigmentation Basophilic Focus Infiltration Cellular	Minimal Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 2-7]			
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung	Alveolar Epith	Hemorrhage	Mild
		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82084

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Pigmentation

Moderate

[Hyperplasia TGLS = 4-7]

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Angiectasis TGLS = 4-21]			
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 3-3]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82085

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Infiltration Cellular	Histiocyte, Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 2-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Moderate
* Thyroid Gland	Follicle	Cyst	Moderate
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1-21]			
* Heart		Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 5-6]			
[Hepatodiaphragmatic Nodule TGLS = 6-24]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-22]			
[Hyperplasia TGLS = 3-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82087

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 8-1]

Pars Distalis

Adenoma

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 2-1]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 1-6]		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Moderate
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Mineralization	Minimal
[Pigmentation TGLS = 2-5]		Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 1-6]			
[Clear Cell Focus TGLS = 1-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Clitoral Gland		Adenoma Inflammation	Chronic, Marked
[Adenoma TGLS = 2-22] [Inflammation TGLS = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet Mineralization	Moderate Minimal
	Renal Tubule	Pigmentation Basophilic Focus Clear Cell Focus Infiltration Cellular	Mild Mixed Cell, Minimal
[Basophilic Focus TGLS = 4-6] [Clear Cell Focus TGLS = 4-6]			
Lymph Node	Pancreatic Pancreatic	Hemorrhage Pigmentation	Minimal Moderate
[Hemorrhage TGLS = 5-24] [Pigmentation TGLS = 5-24]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
[Fibroadenoma TGLS = 3-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 313

TRT#: 6

DOSE: 2500 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82090

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Clitoral Gland		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Mineralization	Minimal
* Liver		Pigmentation	Minimal
		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Duodenum

INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
	[Pigmentation TGLS = 4-5]		
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 3-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82092

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 6

DOSE: 2500 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: 98-82093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Minimal
	[Osteopetrosis TGLS = 6-23]		
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Hyperplasia	Oncocytic, Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 5-6]		
	[Hepatodiaphragmatic Nodule TGLS = 4-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 1-8,2-21]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 3-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82093

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy	Moderate Fatty, Mild Focal, Mild
* Bone	Cranium Femur	Osteopetrosis Osteopetrosis	Minimal Mild
* Kidney	Renal Tubule Renal Tubule	Hyaline Droplet Pigmentation	Mild Mild
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis Pars Distalis	Angiectasis Hyperplasia	Moderate Focal, Moderate
[Angiectasis TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82094

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 318

TRT#: 6

DOSE: 2500 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 655

HISTO: 97-80471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 4-22]		
	[Hepatodiaphragmatic Nodule TGLS = 6-23]		
	[Infiltration Cellular TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Intermed	Angiectasis	Mild
	[Angiectasis TGLS = 5-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80471

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Note: THYMUS IS ON SLIDE 7.

* Thyroid Gland

Ultimobranchial Cyst

Moderate

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone	Femur	Osteopetrosis	Mild
* Clitoral Gland		Adenoma	Multiple
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
Note: CLEAR CL FOCUS IS ON SLIDE 23.			
			[Basophilic Focus TGLS = 5-6]
			[Hepatodiaphragmatic Nodule TGLS = 3-22,4-23]
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
			[Fibroadenoma TGLS = 1-21]
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82095

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Carcinoma	Moderate Fatty, Moderate
* Clitoral Gland [Carcinoma TGLS = 2-8]			
* Kidney	Renal Tubule	Hyaline Droplet Mineralization Nephropathy Pigmentation	Moderate Minimal Minimal Mild
* Liver	Renal Tubule	Basophilic Focus Clear Cell Focus Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6] [Clear Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Hyperplasia TGLS = 1-8]		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Angiectasis Hyperplasia Hyperplasia	Mild Focal, Mild Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82096

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82097

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Marked
* Bone	Cranium	Osteopetrosis	Mild
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 3-23]			
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1-21]			
* Heart		Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 7-6]			
[Clear Cell Focus TGLS = 7-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-25]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82097

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 2-22]		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-24]			
* Pituitary Gland	Pars Intermed	Cyst	Moderate
[Cyst TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		[Basophilic Focus TGLS = 3-6]	
		[Clear Cell Focus TGLS = 3-6]	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
		[Fibroadenoma TGLS = 1-21,2-22]	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Moderate
* Clitoral Gland		Hyperplasia	Marked
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
	[Pigmentation TGLS = 2-5]	Pigmentation	Moderate
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 1-6]	Infiltration Cellular	Mixed Cell, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 7-23]			
* Brain		Compression	Moderate
[Compression TGLS = 11-1]			
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 2-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 8-6]		Infiltration Cellular	Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 9-24]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
[Pigmentation TGLS = 3-8]			
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8,4-22]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82100

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 10-1]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Intestine Large, Colon	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 1-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82101

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 2-21]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	
[Hyperplasia TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Pancreas		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Moderate
* Bone	Cranium	Osteopetrosis	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Marked
[Infiltration Cellular TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-21]			
* Ovary		Cyst	Moderate
		Granulosa Cell Tumor Malignant	
[Cyst TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82104

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
[Angiectasis TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone [Osteopetrosis TGLS = 4-9]	Femur	Osteopetrosis	Minimal
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Mineralization	Minimal
* Liver		Pigmentation	Moderate
		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-6]			
[Infiltration Cellular TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Marked
* Clitoral Gland		Adenoma	Multiple
[Adenoma TGLS = 4-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 7-6]		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,5-22]		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 676

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain		Compression Hydrocephalus	Marked Moderate
[Compression TGLS = 5-1]			
* Kidney	Renal Tubule Renal Tubule	Hyaline Droplet Pigmentation	Mild Mild
[Pigmentation TGLS = 1-5]			
* Liver		Basophilic Focus Eosinophilic Focus Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 2-21]			
* Lung		Infiltration Cellular Pigmentation	Histiocyte, Minimal Mild
* Lymph Node, Mandibular		Hyperplasia	Marked
* Mammary Gland		Adenoma	
* Pituitary Gland	Pars Distalis		
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 676

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Brain		Oligodendroglioma Malignant	
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		[Basophilic Focus TGLS = 5-22]	
		[Clear Cell Focus TGLS = 5-22]	
		[Hepatodiaphragmatic Nodule TGLS = 4-22]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-21]	
* Ovary		Cyst	Moderate
		[Cyst TGLS = 3-7]	
* Pituitary Gland	Pars Intermed	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Brain Oligodendroglioma Malignant
 CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 687

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-5]			
* Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 5-21]			
[Leukemia Mononuclear TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 6-2]			
[Infiltration Cellular TGLS = 6-2]			
[Leukemia Mononuclear TGLS = 6-2]			
* Lymph Node, Mandibular		Ectasia	Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 7-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 687

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81067

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Mineralization	Moderate
		Pigmentation	Mild
Note: THE MINERALIZATION IS PRIMARILY IN THE UROTHELIUM OF THE RENAL PAPILLA.			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		[Basophilic Focus TGLS = 2-6]	
		[Eosinophilic Focus TGLS = 2-6]	
		[Hepatodiaphragmatic Nodule TGLS = 3-22]	
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 1-21]	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82109

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 639

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
Note: BASOPHILIC FOCI ALSO PRESENT ON SLIDE 6.			
[Basophilic Focus TGLS = 4-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
		Pigmentation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 5-21]			

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 1-6]			
[Mixed Cell Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
[Angiectasis TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 387

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-78204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-21]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lym Node Mesen			
Note: MODERATE LYMPHOID DEPLETION; NOT TABULATED ON TDMS.			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-6]			

PRIMARY CAUSE OF DEATH

- Clitoral Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
[Cyst TGLS = 3-1]			
[Hyperplasia TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Mineralization	Minimal
		Pigmentation	Mild
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
* Lung		Hemorrhage	Mild
[Hemorrhage TGLS = 5-2]			
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 1-21]			
* Pancreas		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 4-7,6-22]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
			[Basophilic Focus TGLS = 2-6]
			[Infiltration Cellular TGLS = 2-6]
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
			[Fibroadenoma TGLS = 1-21]
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Adenoma	
		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
	[Osteopetrosis TGLS = 3-21]		
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 5-6]		
	[Mixed Cell Focus TGLS = 5-6]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Mineralization	Mild
		Pigmentation	Minimal
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 675

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone	Cranium	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		[Basophilic Focus TGLS = 3-6]	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
		[Fibroadenoma TGLS = 2-21]	
		[Hyperplasia TGLS = 4-8]	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Marked
	[Osteopetrosis TGLS = 3-22]		
Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	[Cataract TGLS = 1-21]		
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLS = 2-6]		
	[Clear Cell Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 633

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
		Carcinoma	
	[Adenoma TGLS = 5-25]		
	[Carcinoma TGLS = 5-25]		
* Kidney	Renal Tubule	Hyaline Droplet	Marked
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLS = 9-6]		
	[Eosinophilic Focus TGLS = 9-6]		
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24]		
	[Hyperplasia TGLS = 6-8]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 7-6]		

PRIMARY CAUSE OF DEATH

- Clitoral Gland Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 679

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Necrosis	Marked
* Adrenal Medulla		Lymphoma Malignant	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Lymphoma Malignant	
* Intestine Small, Ileum		Ulcer	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Lymphoma Malignant	
	[Pigmentation TGLS = 2-5]	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Lymphoma Malignant	
		Necrosis	Focal, Mild
		[Lymphoma Malignant TGLS = 3-6]	
		[Necrosis TGLS = 3-6]	
* Lung		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
		[Lymphoma Malignant TGLS = 5-3]	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland		Hyperplasia	Mild
		[Hyperplasia TGLS = 1-8]	
* Pancreas		Lymphoma Malignant	
		[Lymphoma Malignant TGLS = 8-7]	
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 679

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80807

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hyperplasia	Focal, Minimal
[Angiectasis TGLS = 6-1]			
[Hyperplasia TGLS = 6-1]			
* Spleen		Lymphoma Malignant Pigmentation	Moderate
[Lymphoma Malignant TGLS = 7-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
PRIMARY CAUSE OF DEATH	- Spleen Lymphoma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Esophagus	* Thymus
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OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 4-6]			
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82118

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: JEJUNUM AND COLON ARE SWITCHED FROM THEIR REGULAR LOCATIONS ON SLIDES 3 AND 4, R ESPECTIVELY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

INSUFFICIENT TISSUE

* Skin

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-8]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Marked
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Renal Tubule	Pigmentation	Mild
[Basophilic Focus TGLS = 3-6]		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

Note: SPLENIC PIGMENT CONSIDERED TO BE HEMOSIDERIN (STRONGLY POSITIVE FOR IRON WITH PRUSSIAN BLUE STAINING).

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1-44]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82041

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SPLENIC PIGMENT CONSIDERED TO BE HEMOSIDERIN (STRONGLY POSITIVE FOR IRON WITH PRUSSIAN BLUE STAINING).

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet Mineralization Nephropathy	Mild Moderate Minimal
* Liver	Renal Tubule	Pigmentation Basophilic Focus Infiltration Cellular	Moderate Mixed Cell, Moderate
	[Basophilic Focus TGLS = 2-6]		
	[Infiltration Cellular TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia Pigmentation	Lymphoid, Moderate Mild
Oral Mucosa		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 3-21]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 355

TRT#: 8

SEX: Female

DAY ON TEST: 617

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 2-6]		
	[Eosinophilic Focus TGLS = 2-6]		
* Mammary Gland		Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
* Uterus		Prolapse	Marked
	[Prolapse TGLS = 1-7.1]		

PRIMARY CAUSE OF DEATH

- Uterus Prolapse

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Bone	Cranium	Osteopetrosis	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Infiltration Cellular TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 6-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82044

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 676

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Kidney		Mineralization	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
			[Basophilic Focus TGLS = 4-6]
			[Infiltration Cellular TGLS = 4-6]
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
			[Hyperplasia TGLS = 3-22]
* Mammary Gland		Fibroadenoma	
			[Fibroadenoma TGLS = 1-21]
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Mild
			[Pigmentation TGLS = 2-6]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Infiltration Cellular Compression	Moderate Fatty, Minimal Focal, Mild Histiocyte, Mild Mild
* Bone Marrow			
* Brain			
[Compression TGLS = 5-1]			
* Clitoral Gland		Hyperplasia	Moderate
* Kidney	Renal Tubule	Hyaline Droplet Mineralization Pigmentation	Mild Mild Mild
	Renal Tubule	Basophilic Focus Clear Cell Focus Hepatodiaphragmatic Nodule Infiltration Cellular	Mixed Cell, Minimal
* Liver			
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
* Lung		Infiltration Cellular Pigmentation	Histiocyte, Mild Mild
* Lymph Node, Mandibular			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82045

ORGAN AND ACCOUNTABLE SITE STATUS

Hematopoietic Cell Proliferation

Mild

Pigmentation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
* Clitoral Gland		Hyperplasia	Marked
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Moderate
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
	[Angiectasis TGLS = 2-1]		
	[Angiectasis TGLS = 2-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 690

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
* Brain		Glioma Malignant	
		Hydrocephalus	Mild
Note: THE MALIGNANT GLIOMA HAS FEATURES OF ASTROCYTOMA AND OLIGODENDROGLIOMA.			
[Glioma Malignant TGLS = 5-1]			
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Cyst	Moderate
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 3-6]			
[Cyst TGLS = 7-23]			
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
Lymph Node	Renal	Hemorrhage	Minimal
	Renal	Pigmentation	Moderate
[Hemorrhage TGLS = 6-22]			
[Pigmentation TGLS = 6-22]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
* Ovary		Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 690

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81068

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 1-7]

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Polyp Stromal

[Hyperplasia TGLS = 2-7]

[Polyp Stromal TGLS = 8-24]

PRIMARY CAUSE OF DEATH

- Brain Glioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 672

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Mineralization	Minimal
		Pigmentation	Moderate
* Liver		Hepatodiaphragmatic Nodule	
		Necrosis	Focal, Marked
			[Hepatodiaphragmatic Nodule TGLS = 5-23]
			[Necrosis TGLS = 6-6]
Lymph Node		Hyperplasia	Lymphoid, Moderate
			[Hyperplasia TGLS = 2-22]
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
			[Angiectasis TGLS = 8-1]
* Skin		Ulcer	Marked
			Note: TGL 1 WAS CANNIBALIZED AND NO MASS WAS AVAILABLE FOR HISTOPATHOLOGICAL EXAMINATION. TGL 7 WAS MILD HEMORRHAGE; NOT CODED ON TDMS.
			[Ulcer TGLS = 1-21]
* Spleen		Hematopoietic Cell Proliferation	Marked
		Hemorrhage	Mild
			[Hematopoietic Cell Proliferation TGLS = 4-6]
			[Hemorrhage TGLS = 9-25]

PRIMARY CAUSE OF DEATH

- Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 2-5]			
* Liver		Infiltration Cellular	Mixed Cell, Moderate
[Infiltration Cellular TGLS = 1-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 3-7,7.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lung	Lymph Node	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
[Angiectasis TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
[Basophilic Focus TGLS = 4-6]			
[Infiltration Cellular TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Pancreatic	Hyperplasia	Histiocytic, Moderate
	Pancreatic	Pigmentation	Moderate
[Hyperplasia TGLS = 3-7]			
[Hyperplasia TGLS = 5-3]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Mild
[Hyperplasia TGLS = 1-21]			
[Ulcer TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82051

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Mild
* Thymus	Hyperplasia	Lymphoid, Mild
* Uterus	Polyp Stromal	
[Polyp Stromal TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Esophagus

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet Mineralization	Mild Mild
	Renal Tubule	Pigmentation Basophilic Focus Infiltration Cellular	Moderate Mixed Cell, Minimal
	[Basophilic Focus TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Trichoepithelioma	
	[Trichoepithelioma TGLS = 2-21]		
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Minimal Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Brain		Carcinoma	Metastatic (Pituitary Gland)
[Carcinoma TGLS = 8-1]			
* Kidney	Renal Tubule Renal Tubule	Hyaline Droplet Pigmentation	Moderate Moderate
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Moderate
Note: HISTIOCYTES IN THE MIXED CELL INFILTRATE HAVE ABUNDANT PALE BROWNISH CYTOPLASM.			
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia Hyperplasia	Mild Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Intermed	Carcinoma	
[Carcinoma TGLS = 9-1]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Moderate
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 7-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81835

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Transit Epithe

Hyperplasia

Minimal

Inflammation

Chronic, Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Marked

[Hyperplasia TGLS = 5-7,6-7]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Intermed Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Tongue Squamous Cell Carcinoma

Animal Note: TGL 3-7 IS CONSIDERED TO BE AN UNREMARKABLE PANCREATIC LYMPH NODE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet Mineralization	Mild Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Spleen		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 1-6]			
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet Mineralization Nephropathy Pigmentation	Moderate Mild Minimal Moderate
[Pigmentation TGLS = 1-5]	Renal Tubule		
* Liver		Basophilic Focus Eosinophilic Focus Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 639

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
[Pigmentation TGLS = 3-5]			
* Liver		Infiltration Cellular	Mixed Cell, Moderate
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Prolapse	Marked
[Prolapse TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

- Uterus Prolapse

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 4-21]		
* Clitoral Gland		Inflammation	Chronic, Mild
	[Inflammation TGLS = 1-8]		
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Moderate
	[Basophilic Focus TGLS = 3-6]		
	[Infiltration Cellular TGLS = 3-6]		
Lymph Node	Pancreatic	Hemorrhage	Minimal
	Pancreatic	Pigmentation	Moderate
	[Hemorrhage TGLS = 2-7]		
	[Pigmentation TGLS = 2-7]		
* Lymph Node, Mandibular		Ectasia	Mild
		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82056

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 722

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 7-1]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Infarct	Minimal
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
[Basophilic Focus TGLS = 5-6]			
[Eosinophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
[Pigmentation TGLS = 1-8]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 6-5]			
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Spleen		Pigmentation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 722

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81836

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 3-7]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 532

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 6-1]			
* Clitoral Gland		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-2]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 378

TRT#: 8

DOSE: 5000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: 98-82058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Adenoma	
		Cyst	Moderate
[Adenoma TGLS = 2-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Inflammation	Chronic, Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
[Basophilic Focus TGLS = 1-6]			
[Infiltration Cellular TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-2]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Foreign Body	
	Note: BLOOD WITHIN NASAL MEATUS; NOT TABULATED ON TDMS.		
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 3-5]		
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Moderate
	[Basophilic Focus TGLS = 2-6]		
	[Hepatodiaphragmatic Nodule TGLS = 1-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* 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	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLS = 1-6]		
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
* Spleen		Pigmentation	Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: FRAGMENT OF UNIDENTIFIED TISSUE ADJACENT TO PITUITARY GLAND ON SLIDE 1.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Marked
	[Infiltration Cellular TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 2-21]		
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
	[Basophilic Focus TGLS = 1-6]		
	[Infiltration Cellular TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
* Mammary Gland		Hyperplasia	Minimal
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Leiomyoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Moderate
	[Basophilic Focus TGLS = 1-6]		
	[Clear Cell Focus TGLS = 1-6]		
	[Infiltration Cellular TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
		[Basophilic Focus TGLS = 3-6]	
		[Clear Cell Focus TGLS = 3-6]	
		[Infiltration Cellular TGLS = 3-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
		[Fibroadenoma TGLS = 1-21]	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Moderate
		[Adenoma TGLS = 4-1]	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Polyp Stromal	
		[Polyp Stromal TGLS = 2-7]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82064

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Mild
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
[Hyperplasia TGLS = 1-2]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Nose			
Note: EXUDATE IN NASOLACRIMAL DUCT; NOT CODED ON TDMS.			
* Spleen		Pigmentation	Moderate
* Uterus			
Note: LOCALIZED AREA OF MILD ENDOMETRIAL STROMAL HYPERPLASIA; NOT CODED ON TDMS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82065

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
[Angiectasis TGLS = 3-1]			
* Spleen		Pigmentation	Moderate
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Mineralization	Mild
		Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
		[Basophilic Focus TGLS = 3-6]	
		[Clear Cell Focus TGLS = 3-6]	
		[Hepatodiaphragmatic Nodule TGLS = 2-21]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hemorrhage	Mild
	Pancreatic	Pigmentation	Moderate
* Lymph Node, Mandibular		Ectasia	Mild
		Hyperplasia	Lymphoid, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Carcinoma	Multiple
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 2-6]			
* Mammary Gland		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Hyperplasia	Marked
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Infarct	Minimal
		Mineralization	Moderate
* Liver	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
		[Basophilic Focus TGLS = 2-6]	
		[Eosinophilic Focus TGLS = 2-6]	
		[Hepatodiaphragmatic Nodule TGLS = 1-21]	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	C Cell	Carcinoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Moderate
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 4-5]		
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Moderate
	[Basophilic Focus TGLS = 2-6]		
	[Hepatodiaphragmatic Nodule TGLS = 3-21]		
	[Infiltration Cellular TGLS = 2-6]		
* Mammary Gland		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Medulla			
Note: MARKED LYMPHOID INFILTRATE IN ADRENAL MEDULLA; NOT CODED ON TDMS.			
* Bone	Cranium	Osteopetrosis	Moderate
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Inflammation	Chronic, Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 1-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Marked
[Basophilic Focus TGLS = 3-6]			
[Infiltration Cellular TGLS = 3-6]			
Lymph Node	Renal	Hyperplasia	Lymphoid, Mild
	Renal	Pigmentation	Marked
[Hyperplasia TGLS = 5-21]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82071

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas

Atrophy

Mild

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Mild

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 2-5]			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-21]			
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyaline Droplet	Mild
		Mineralization	Moderate
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		[Basophilic Focus TGLS = 2-6]	
		[Eosinophilic Focus TGLS = 2-6]	
		[Infiltration Cellular TGLS = 2-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		[Hyperplasia TGLS = 1-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Kidney	Renal Tubule	Hyaline Droplet	Mild
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Marked
* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
[Basophilic Focus TGLS = 3-6]			
[Infiltration Cellular TGLS = 3-6]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet Mineralization	Moderate Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
		[Basophilic Focus TGLS = 2-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma Hyperplasia	Moderate
		[Fibroadenoma TGLS = 1-21]	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Moderate Moderate
		[Pigmentation TGLS = 3-6]	
* Thymus		Cyst	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet Mineralization	Mild Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus Clear Cell Focus Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 3-6]			
Lymph Node	Pancreatic Pancreatic	Hemorrhage Pigmentation	Minimal Marked
Note: CAUSE OF PANCREATIC LYMPH NODE ENLARGEMENT NOTED AT NECROPSY NOT DETERMINED.			
* Lymph Node, Mandibular		Pigmentation	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Moderate
* Thyroid Gland	C Cell Follicular Cel	Adenoma Carcinoma	
[Carcinoma TGLS = 4-3]			
* Uterus	Endometrium	Hyperplasia Polyp Stromal	Cystic, Mild
[Polyp Stromal TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Renal Tubule	Hyaline Droplet	Moderate
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 1-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05205-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 10/21/2014

Time Report Requested: 22:06:45

First Dose M/F: NA / NA

Lab: SRI

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE