

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

C Number:	C62340D
Lock Date:	12/10/1998
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	11/30/2000

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 691 HISTO: 98-81852
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Cardiomyopathy	Minimal
* Intestine Large, Colon		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
[Leukemia Mononuclear TGLS = 6-5]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Kupffer Cell	Leukemia Mononuclear	
	Hepatocyte	Pigmentation	Moderate
[Hepatodiaphragmatic Nodule TGLS = 9-23]		Vacuolization Cytoplasmic	Moderate
[Leukemia Mononuclear TGLS = 8-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-26]			
[Leukemia Mononuclear TGLS = 12-25]			
[Leukemia Mononuclear TGLS = 2-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 691
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 98-81852

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 10-24]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-22]			
* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation Leukemia Mononuclear	Minimal Chronic, Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Focal, Minimal
* Preputial Gland		Inflammation Leukemia Mononuclear	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 98-82315
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Mild
Eye		Atrophy	Moderate
[Atrophy TGLS = 1-21]		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 5-23]			
[Hyperplasia TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 4-6,6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 98-82315
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thyroid Gland	Follicle	Cyst	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 98-82253
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Minimal
[Galactocele TGLS = 1-21]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 9-22]			
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Stomach, Glandular		Infiltration Cellular	Lymphoid, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82253

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 8-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 98-82211
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 644 HISTO: 97-81353
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney			
Note: MILD OSSEOUS METAPLASIA IN KIDNEY; NOT TABULATED.			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
	Lymph Node		
	[Leukemia Mononuclear TGLS = 4-21]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 644 HISTO: 97-81353
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-7-1]	Bilateral, Interstit Cell	Leukemia Mononuclear Ulcer Adenoma	Mild
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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Pituitary Gland	* Preputial 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
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Minimal
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 2-22]			
* Prostate	Ventral	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 98-82213
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Marked
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Hemorrhage	Mild
* Lymph Node, Mandibular		Ectasia	Moderate
		Hyperplasia	Lymphoid, Mild
[Ectasia TGLS = 3-8]			
[Hyperplasia TGLS = 3-8]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Nose	Respirat Epith	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Atrophy	Mild
* Prostate	Ventral	Adenoma	
		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 98-82214
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* 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, Minimal
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 3-1]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Pancreas	* 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		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
Mesentery		Congestion	Moderate
	Fat	Necrosis	Mild
[Congestion TGLS = 2-21]			
[Necrosis TGLS = 2-21]			
* Nose		Foreign Body	
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
[Hepatodiaphragmatic Nodule TGLS = 3-23]			
* 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: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Preputial 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
		Hyperplasia	Focal, Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-23]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Parathyroid 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
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Pigmentation	Mild
* Lymph Node, Mandibular		Atrophy	Mild
* Pancreas		Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Inflammation	Chronic, Moderate
* Preputial Gland		Adenoma	
* Testes	Bilateral, Interstit Cell		

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Pancreas		Atrophy	Moderate
Note: TGL 4-22 IS AN AREA OF MARKED ANGIECTASIS; NOT TABULATED ON TDMS.			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-21]			
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 640

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
		Hydrocephalus	Mild
	[Compression TGLS = 4-1]		
* Int Sm Duoden			
	Note: MILD DUODENAL EROSION; NOT TABULATED.		
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 6-5]		
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[Vacuolization Cytoplasmic TGLS = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Atrophy	Moderate
		Pigmentation	Mild
		Dilatation	Minimal
* Mammary Gland			
	[Dilatation TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-1]		
* Preputial Gland		Cyst	Moderate
* Prostate		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 640

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81354

ORGAN AND ACCOUNTABLE SITE STATUS

* Saliv Glands

Note: MILD NECROSIS AND NEUTROPHIL INFILTRATE IN PAROTID GLAND; NOT TABULATED.

* Spleen

Pigmentation

Marked

* Stomach, Forestomach

Edema

Moderate

Epithelium

Hyperplasia

Moderate

Ulcer

Marked

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Minimal

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-8]			
* Prostate	Ventral	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC IS IN AN EARLY STAGE.			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

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: 98-82318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-21]			
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 3-8]			
* Prostate	Ventral	Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Glandular		Erosion	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: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 533

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Compression	Marked
		Hydrocephalus	Mild
[Compression TGLS = 2-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Mild
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Minimal
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

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: 98-82254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia Leukemia Mononuclear	Fatty, Minimal Focal, Mild
* Bone Marrow		Atypia Cellular Cardiomyopathy Nephropathy Basophilic Focus	Moderate Moderate Minimal
* Epididymis		Hyperplasia Leukemia Mononuclear Mixed Cell Focus	Moderate
* Heart		Infiltration Cellular Leukemia Mononuclear Pigmentation	Histiocyte, Minimal Moderate
* Kidney		Pigmentation	Mild
* Liver	Bile Duct	Atrophy Adenoma Inflammation Basal Cell Adenoma	Mild Mild Chronic, Mild
[Hyperplasia TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Mediastinal		
Lymph Node	Mediastinal		
[Leukemia Mononuclear TGLS = 4-3]			
* Lymph Node, Mandibular			
* Pancreas			
* Pituitary Gland	Pars Distalis		
* Preputial Gland			
* Skin			
[Basal Cell Adenoma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

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: 98-82254

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 6-22]			
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
Tongue	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 7-23]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Mild
* Saliv Glands			
Note: MINIMAL CHRONIC INFLAMMATION; NOT CODED			
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thyroid Gland	Follicular Cel	Carcinoma	
	[Carcinoma TGLS = 2-3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

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: 98-82220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-21]			
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* 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	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 1-21,3-22]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 441

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-79045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 1-1]			
* Int Lg Cecum			
Note: MINIMAL CHRONIC INFLAMMATION; NOT TABULATED.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

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: 98-82320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* 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		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Pigmentation	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Minimal
* Skin		Inflammation	Chronic, Marked
		[Inflammation TGLS = 1-21]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 2-7]	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hemorrhage	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Hemorrhage TGLS = 1-6]			
[Mixed Cell Focus TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular		Erosion	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82322

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Ventral	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 3-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6,5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

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: 98-82324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
[Hyperplasia TGLS = 4-6]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* 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
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
Note: MINIMAL TUBULAR HYPERTROPHY; NOT TABULATED.			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Ventral	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: MODERATE SPLENIC AND RENAL CONGESTION; NOT TABULATED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		[Alveolar/Bronchiolar Adenoma TGLS = 2-2]	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-7]	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 631

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
[Cardiomyopathy TGLS = 8-21]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 5-6]			
[Leukemia Mononuclear TGLS = 5-6]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 6-3]			
[Pigmentation TGLS = 6-3]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6,4-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 631

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81133

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Popliteal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-29]			
[Leukemia Mononuclear TGLS = 11-28]			
[Leukemia Mononuclear TGLS = 15-7]			
[Leukemia Mononuclear TGLS = 7-25]			
[Leukemia Mononuclear TGLS = 8-26]			
[Leukemia Mononuclear TGLS = 14-30]			
[Leukemia Mononuclear TGLS = 9-27]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82221

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-23,6-24]			
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6,4-22]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 663

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-22]			
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-23]			
[Leukemia Mononuclear TGLS = 7-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-5]			
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 663

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81853

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 5-21]

* Nose		Inflammation	Chronic, Minimal
* Preputial Gland		Atrophy	Mild
* Prostate	Ventral	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 6-6]

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

[Adenoma TGLS = 4-7]

* Thymus		Leukemia Mononuclear	
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[Leukemia Mononuclear TGLS = 11-3]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Pancreatic	Pigmentation	Mild
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mandibular		Ectasia	Moderate
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82222

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Hypertrophy	Moderate Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-1]			
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus Eosinophilic Focus	
	Bile Duct	Hyperplasia Leukemia Mononuclear	Moderate
[Hyperplasia TGLS = 5-6]			
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Hemorrhage	Mild
[Hemorrhage TGLS = 8-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
[Leukemia Mononuclear TGLS = 7-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82327

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 6-5]		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen [Hematopoietic Cell Proliferation TGLS = 4-6] [Leukemia Mononuclear TGLS = 4-6]		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus [Leukemia Mononuclear TGLS = 10-3]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: EXTENSIVE NECROSIS ASSOCIATED WITH LEUKEMIA MONUC IN LYMPH NODES AND THYMUS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 4-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Congestion	Moderate
[Congestion TGLS = 1-22]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Minimal
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 3-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7,2-7-1]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 4-21]			
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Necrosis	Focal, Moderate
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Foreign Body	
* Pancreas	Islets Panc	Adenoma	
		Atrophy	Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
Skeletal Muscle		Atrophy	Moderate
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82328

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Islets, Pancreatic Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* 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

* Kidney

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Preputial Gland

* Prostate

* Salivary Glands

* Seminal Vesicle

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Testes

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Bone Marrow
* Intestine Large, Cecum
* Intestine Small, Ileum
* Liver
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

* Adrenal Medulla
* Brain
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Blood Vessel
* Epididymis
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach, Forestomach
* Thyroid Gland

* Bone
* Esophagus
* Intestine Small, Duodenum
* Kidney
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach, Glandular
* Trachea

MISSING

* Lung

OBSERVATIONS

* Heart

Cardiomyopathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Osteosarcoma	
Note: OSTEOSARCOMA IS ALSO PRESENT ON SLIDES 7 AND 8.			
[Osteosarcoma TGLS = 8-22,9-23]			
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Mild
[Hyperplasia TGLS = 6-6]			
[Necrosis TGLS = 6-6]			
* Lung	Alveolar Epith	Hyperplasia	Marked
[Hyperplasia TGLS = 11,12-2]			
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 5-3]			
[Pigmentation TGLS = 5-3]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Galactocele	Minimal
[Galactocele TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
* Prostate	Ventral	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:57
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 43	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 727 HISTO: 98-82329
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Keratoacanthoma TGLS = 1-21]		Keratoacanthoma	
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Moderate Mild
* Testes [Atrophy TGLS = 10-7]	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Bone Osteosarcoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 586

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-1]			
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Jejunum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-23]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Note: TGL 7-5 INCLUDES MILD RENAL TUBULAR CYTOPLASMIC VACUOLIZATION; NOT TABULATED.			
[Leukemia Mononuclear TGLS = 7-5,8-5]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 9-6]			
[Leukemia Mononuclear TGLS = 9-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 586

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80449

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 5-5]		Leukemia Mononuclear	
Mesentery		Accessory Spleen	
	Fat	Necrosis	Moderate
[Accessory Spleen TGLS = 2-21]			
[Necrosis TGLS = 6-22]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 11-4]			
[Leukemia Mononuclear TGLS = 11-4]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4-7]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 714

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate			
	Note: MILD FIBROSIS IN PROSTATE; NOT TABULATED.		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
		Leukemia Mononuclear	
	[Hematopoietic Cell Proliferation TGLS = 5-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-7]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 714

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82203

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* 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 = 5-23]			
* Brain		Compression	Mild
[Compression TGLS = 7-1-1]			
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8,2-21]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-22]			
Peritoneum	Mesothelium	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Ventral	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82330

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Pigmentation

Mild

* Testes

Germinal Epith

Atrophy

Moderate

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	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]			
[Hyperplasia TGLS = 2-6]			
* Nose		Foreign Body	
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Small, Duodenum	* Lymph Node, Mandibular	* Stomach, Forestomach	* Stomach, Glandular
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OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6,4-6]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-10]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-1,11-1]			
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-2]			
Lymph Node	Renal	Leukemia Mononuclear	
	Renal	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 8-22]			
[Pigmentation TGLS = 8-22]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Pigmentation	Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82333

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Preputial Gland		Atrophy	Mild
		Carcinoma	
		Leukemia Mononuclear	
	[Carcinoma TGLS = 1-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Stomach, Glandular		Erosion	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Urinary Bladder		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-8]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* 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

* Intestine Small, Ileum

INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
		Hydrocephalus	Mild
	[Compression TGLS = 8-1]		
	[Hydrocephalus TGLS = 8-1]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Atrophy	Moderate
		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Marked

Note: BASOPH FOCUS IS ON SLIDE 23.

[Atrophy TGLS = 9-23]

[Clear Cell Focus TGLS = 10-24]

[Hepatocellular Adenoma TGLS = 5-22]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82334

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6] [Pigmentation TGLS = 9-23]			
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Mild
[Leukemia Mononuclear TGLS = 6-2]			
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Preputial Gland		Atrophy Inflammation	Mild Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		
CONTRIBUTORY CAUSE OF DEATH	- Liver Hepatocellular Adenoma; Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 673

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
[Pigmentation TGLS = 5-5]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 6-21]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Pigmentation	Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 673

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81854

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:57

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLS = 9-22]		
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
	[Pigmentation TGLS = 5-5]		
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 4-6]		
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 8-21]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82224

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Inflammation TGLS = 2-8]		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Marked
* Spleen [Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 7-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
Eye	Retina	Degeneration	Marked
Note: NO LENS PRESENT IN EYE SECTION. [Degeneration TGLS = 7-22]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 5-6]	
		[Leukemia Mononuclear TGLS = 5-6]	
* Lung		Alveolar/Bronchiolar Carcinoma	
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-2]	
* Lymph Node, Mandibular		Pigmentation	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Fibrosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:58
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 53	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 98-82225
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-21] [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Mild
[Adenoma TGLS = 2-7-1] [Atrophy TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 555

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-21]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-7]		
	[Leukemia Mononuclear TGLS = 5-22]		
	[Leukemia Mononuclear TGLS = 6-23]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-5]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 555

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80124

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Mild

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 7-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 537

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-79981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Histiocytic Sarcoma	
* Brain		Hemorrhage	Mild
	[Hemorrhage TGLS = 8-1]	Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLS = 8-1]		
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLS = 5-6]	Necrosis	Focal, Marked
	[Necrosis TGLS = 5-6]		
* Lung		Hemorrhage	Marked
		Histiocytic Sarcoma	
		Infiltration Cellular	Histiocyte, Moderate
Note: MILD LUNG EDEMA; NOT TABULATED.			
	[Hemorrhage TGLS = 6-2]		
	[Histiocytic Sarcoma TGLS = 6-2]		
	[Infiltration Cellular TGLS = 6-2]		
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 537

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-79981

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 2-22]

* Pancreas	Atrophy	Minimal
* Preputial Gland	Inflammation	Chronic, Mild
* Prostate	Inflammation	Chronic, Moderate
* Skin	Keratoacanthoma	

[Keratoacanthoma TGLS = 1-21]

* Spleen	Hematopoietic Cell Proliferation	Marked
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[Hematopoietic Cell Proliferation TGLS = 3-6]

* Testes	Bilateral, Interstit Cell	Adenoma
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[Adenoma TGLS = 7-7]

* Urin Bladder

Note: TGL 4-8 IS URINARY BLADDER DILATATION; MORPHOLOGY NOT AVAILABLE ON TDMS.

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH - Brain Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	Follicle	Cyst	Moderate
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy	Minimal
		Hyperplasia	Marked
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 6-6,8-6]	
		[Leukemia Mononuclear TGLS = 6-6,8-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Marked
		[Leukemia Mononuclear TGLS = 7-22]	
		[Pigmentation TGLS = 7-22]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-5]	
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81855

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis Leukemia Mononuclear	Moderate
[Fibrosis TGLS = 3-21]			
[Leukemia Mononuclear TGLS = 2-6]			

* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 533

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
	Kupffer Cell	Leukemia Mononuclear	
		Pigmentation	Mild
	[Hyperplasia TGLS = 3-6]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Mammary Gland		Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Minimal
* Testes	Interstitial Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* 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	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-23]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: MILD ANGIECTASIS IN PARS INTERMEDIA; NOT TABULATED.			
[Angiectasis TGLS = 5-1]			
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82227

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|-----------------------|---------------------|
| * Epididymis | | Atypia Cellular | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 3-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 649

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-10]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
[Compression TGLS = 8-1]			
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Edema	Mild
* Kidney	Renal Tubule	Dilatation	Moderate
		Leukemia Mononuclear	
* Liver		Hepatodiaphragmatic Nodule	
	Hepatocyte	Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-21]		Vacuolization Cytoplasmic	Moderate
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Mild
[Leukemia Mononuclear TGLS = 7-23]			
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 6-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 649

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81786

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 9-1]			
[Leukemia Mononuclear TGLS = 9-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked
[Inflammation TGLS = 1-7-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Ulcer	Moderate
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4-10]			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 7-22]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Clear Cell Focus	
[Basophilic Focus TGLS = 6-6]		Hyperplasia	Mild
[Clear Cell Focus TGLS = 6-6]			
[Hyperplasia TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	
[Fibroma TGLS = 8-23]			
[Keratoacanthoma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:58
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 62

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82255

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea		

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
	Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 8-5]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Necrosis	Focal, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	Note: LIVER NECROSIS APPEARS TO BE MIDZONAL IN SOME AREAS.		
	[Necrosis TGLS = 9-6]		
	[Vacuolization Cytoplasmic TGLS = 9-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Moderate
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 3-21,4-22]		
* Preputial GI			
	Note: PREPUTIAL GL PRESENT AND NORMAL.		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82229

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Ventral	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 7-6]			
* Stomach, Glandular		Erosion	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
* Urinary Bladder		Papilloma	

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart	Cardiomyopathy	Mild
* Thyroid Gland	Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus	* Thyroid Gland
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OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Carcinoma	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
Note: HEPATOCLR CARC IS ON SLIDE 6.			
[Hepatodiaphragmatic Nodule TGLS = 3-22,4-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
	Kupffer Cell	Pigmentation	Marked
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
[Mixed Cell Focus TGLS = 5-6]			
[Pigmentation TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Congestion	Moderate
	Fat	Necrosis	Minimal
[Congestion TGLS = 3-22]			
[Necrosis TGLS = 3-22]			
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Prostate	Ventral	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82256

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Mild
	[Clear Cell Focus TGLS = 5-23]		
	[Hemorrhage TGLS = 4-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Mesentery		Accessory Spleen	
	[Accessory Spleen TGLS = 3-21]		
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Moderate
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 1-7]		
	[Atrophy TGLS = 2-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82336

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: 96-74808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 615

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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	Peripheral Nerve	* Salivary Glands	* Seminal Vesicle
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 12-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 11-5]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 13-27]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 615

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80742

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25]			
* Spleen		Fibrosis Hematopoietic Cell Proliferation Leukemia Mononuclear	Marked Mild
[Fibrosis TGLS = 7-26,8-6]			
[Hematopoietic Cell Proliferation TGLS = 8-6,9-6]			
[Leukemia Mononuclear TGLS = 8-6,9-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		
CONTRIBUTORY CAUSE OF DEATH	- Skin Subcut Tiss Fibroma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 616

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
Skeletal Muscle	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Benign TGLS = 1-10]		Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Liver [Atrophy TGLS = 4-22]		Atrophy	Marked
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Moderate
Note: FOREIGN BODY IS A HAIR SHAFT.			
* Prostate		Inflammation	Chronic, Minimal
* Skin		Cyst	Moderate
Note: CYST IS LINED BY THIN FIBROUS CAPSULE AND A FEW FOREIGN BODY GIANT CELLS. IT CONTAINS PROTEINACEOUS PARTIALLY MINERALIZED MATERIAL AND MATERIAL RESEMBLING OIL.			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Benign

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Intestine Small, Ileum	* Mammary Gland
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OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
Note: CYSTIC DEGENERATION IS ON SLIDE 28.			
		[Basophilic Focus TGLS = 9-6]	
		[Clear Cell Focus TGLS = 9-6]	
		[Eosinophilic Focus TGLS = 9-6]	
		[Hepatodiaphragmatic Nodule TGLS = 8-28]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
Note: FOCAL PROTRUSION OF LYMPHOID TISSUE WITH INTERSTITIAL FIBROSIS IN LUMEN OF BRONCHUS; NOT TABULATED.			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82261

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Parathyroid Gland		Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Hemangioma	
	[Fibroma TGLS = 1-21,2-22,4-24,5-25,6-26,7-27,12-30]		
	[Hemangioma TGLS = 3-23]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 11-7]		
* Urinary Bladder	Transit Epithe	Papilloma	
	[Papilloma TGLS = 10-29]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Fibrosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Minimal
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	[Fibroma TGLS = 1-21,2-22,3-23,4-24]		
	[Fibrosarcoma TGLS = 5-25]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 9-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6-7]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Ventral	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,3-23,6-24]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Carcinoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 7-2,9-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 4-3]		
	[Pigmentation TGLS = 4-3]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-5]		
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-1]		
* Preputial Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82351

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic, Mild
[Carcinoma TGLS = 1-21]			
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 11-24,13-26]			
[Lipoma TGLS = 12-25]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
		Pigmentation	Mild
[Fibrosis TGLS = 2-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 8-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 3-8]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82239

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith

Atrophy

Minimal

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1-7]

* Thyroid Gland

Follicle

Cyst

Moderate

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
Tissue NOS	* Trachea	* Urinary Bladder	

MISSING

* Preputial Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 8-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Pigmentation	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,3-22,4-23]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82240

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7-6]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

Interstit Cell

Hyperplasia

Moderate

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 6-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-81098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	Ear	* 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
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Marked
		Fibrosis	Moderate
* Heart		Cardiomyopathy	Moderate
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Dilatation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Hemangioma	
		[Fibroma TGLS = 2-22]	
		[Hemangioma TGLS = 3-23]	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Mild
		[Hematopoietic Cell Proliferation TGLS = 6-6]	
* Stomach, Glandular		Ulcer	Moderate

Note: DIFFUSE MINERALIZATION IN MUCOSA OF GLANDULAR STOMACH; NOT TABULATED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-81098

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 7-4]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Hyperplasia TGLS = 7-6]			
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 8-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Mammary Gland		Dilatation	Minimal
* Nose		Foreign Body	
* Pancreas		Atrophy	Mild
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Saliv Glands			
Note: SALIVARY GLAND PRESENT ON SLIDE 8-1.			
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 2-21,9-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82352

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
		Pigmentation	Moderate
[Fibrosis TGLS = 5-22]			
[Pigmentation TGLS = 5-22]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
	[Leukemia Mononuclear TGLS = 9-5]		
	[Pigmentation TGLS = 9-5]		
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 3-22]		
* Preputial Gland		Inflammation	Chronic, Mild
	[Inflammation TGLS = 5-8]		
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81	TRT#: 3 DOSE: 625 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 98-82241
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ORGAN AND ACCOUNTABLE SITE STATUS			
* Skin [Fibroma TGLS = 1-21,4-23]	Subcut Tiss	Fibroma	Multiple
* Spleen [Fibrosis TGLS = 8-24] [Leukemia Mononuclear TGLS = 7-6]		Fibrosis Leukemia Mononuclear	Mild
* Testes [Adenoma TGLS = 6-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	Follicle C Cell	Cyst Hyperplasia	Moderate Minimal

PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Moderate
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 5-6]		
	[Clear Cell Focus TGLS = 5-6]		
	[Eosinophilic Focus TGLS = 5-6]		
	[Hepatocellular Adenoma TGLS = 4-23]		
	[Mixed Cell Focus TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]		
* Nose		Foreign Body	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82242

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 2-22]	Subcut Tiss	Fibroma	
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 600

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
Note: CLEAR CELL FOCI ARE ALSO ON SLIDE 6.			
[Clear Cell Focus TGLS = 7-26]			
[Hepatodiaphragmatic Nodule TGLS = 4-24]			
[Mixed Cell Focus TGLS = 5-25]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 3-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Preputial Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 600

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80498

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic, Moderate
[Carcinoma TGLS = 2-22]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant; Pituitary Gland Pars Distalis Adenoma; Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 636

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 3-21,5-22]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
	[Adenoma TGLS = 2-7]		
	[Atrophy TGLS = 1-7]		
* Urinary Bladder		Squamous Cell Papilloma	
	Note: PAPILLOMA HAS AREAS OF SQUAMOUS DIFFERENTIATION.		
	[Squamous Cell Papilloma TGLS = 4-7-1]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 621

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
Eye		Cataract	Marked
	Retina	Degeneration	Moderate
	[Cataract TGLS = 1-21]		
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Mild
	[Hepatocellular Adenoma TGLS = 6-25]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Marked
	[Pigmentation TGLS = 7-26]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIOMA MAL IS ALSO ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 3-23]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85	TRT#: 3 DOSE: 625 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 621 HISTO: 97-81046
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thymus			
Note: MODERATE GRANULOPOIETIC RESPONSE IN THYMUS; NOT TABUALTED ON TDMS.			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Fibrosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
	[Leukemia Mononuclear TGLS = 7-24]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
	[Fibroadenoma TGLS = 4-23]		
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 1-21]		
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81610

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 3-22]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-6]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 6-24]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
Note: VASCULAR CONGESTION WITHIN MESENTERIC FAT ON SLIDE 23; NOT TABULATED.			
[Necrosis TGLS = 5-23]			
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
		Keratoacanthoma	
[Fibroma TGLS = 2-22,8-26]			
[Fibrosarcoma TGLS = 7-25]			
[Keratoacanthoma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81856

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 428

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-78991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
			[Degeneration TGLS = 3-5]
			[Pigmentation TGLS = 3-5]
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
			Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.
			[Mesothelioma Malignant TGLS = 2-21]
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hemorrhage	Marked
			[Hematopoietic Cell Proliferation TGLS = 5-6]
			[Hemorrhage TGLS = 4-22]
* Stomach, Glandular		Ulcer	Moderate
			[Ulcer TGLS = 6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 428

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-78991

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 567

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
Note: CLEAR CELL FOCUS IS ON SLIDE 22.			
[Hepatodiaphragmatic Nodule TGLS = 5-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Hyperplasia	Moderate
		Inflammation	Chronic, Mild
[Hyperplasia TGLS = 2-8]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 567

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80196

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Preputial Gland Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 567

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Minimal
[Hepatocholangiocarcinoma TGLS = 5-25]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 11-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,3-23]			
* Spleen		Hematopoietic Cell Proliferation	Marked
		Histiocytic Sarcoma	
[Hematopoietic Cell Proliferation TGLS = 7-6]			
[Histiocytic Sarcoma TGLS = 4-24]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Mild
[Adenoma TGLS = 8-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 567

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80164

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatocholangiocarcinoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Spleen Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 615

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain			
Note: FOCUS OF APPARENT GLIOSIS (MINIMAL) IN CEREBRUM; NOT TABULATED.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 615

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81047

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 471

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC APPEARS TO BE IN AN EARLY STAGE.			
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
	[Leukemia Mononuclear TGLS = 2-6]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 616

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81048

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Schwannoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 639

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain		Compression	Moderate
[Compression TGLS = 7-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Dilatation	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hemangiosarcoma	
	Bile Duct	Hyperplasia	Moderate
[Hemangiosarcoma TGLS = 4-21]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Hemorrhage	Moderate
Note: INCREASED STROMAL PROLIFERATION; POSSIBLY REPRESENTS EARLY HEMANGIOSARCOMA.			
[Hemorrhage TGLS = 2-8]			
* Mammary Gland		Dilatation	Mild
		Hemangioma	
[Dilatation TGLS = 1-8]			
[Hemangioma TGLS = 1-8 and 9-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 639

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81355

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
Skeletal Muscle [Hemorrhage TGLS = 5-22]		Hemorrhage	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Liver Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 465

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Blood Vessel | * 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 | Peripheral Nerve | * Pituitary Gland | * Salivary Glands |
| * Seminal Vesicle | Spinal Cord | * Stomach, Forestomach | * Thyroid Gland |
| * Trachea | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|--------------|-----------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 13-1,14-1] | | | |
| * Epididymis | | Atypia Cellular | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Dilatation | Mild |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 12-2] | | | |
| Lymph Node | Iliac | Leukemia Mononuclear | |
| | Inguinal | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-23] | | | |
| [Leukemia Mononuclear TGLS = 5-22] | | | |
| [Leukemia Mononuclear TGLS = 11-24] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 465

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79078

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Prostate		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Glandular		Erosion	Mild
[Erosion TGLS = 16-25]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 534

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
* Lung		Carcinoma	Metastatic (Zymbal'S Gland)
	[Carcinoma TGLS = 3-2,5-2]	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Pancreas		Atrophy	Mild
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
	[Carcinoma TGLS = 1-21]		

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 569

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Marked
[Cyst TGLS = 3-8]			
[Inflammation TGLS = 3-8]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 4-22,5-23]			
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 6-6]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstitial Cell	Hyperplasia	Mild
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
	[Basophilic Focus TGLS = 13-6]		
	[Clear Cell Focus TGLS = 13-6]		
	[Eosinophilic Focus TGLS = 13-6]		
	[Hepatodiaphragmatic Nodule TGLS = 10-29]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 3-23]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Saliv Glands			
	Note: LOCALIZED AREA OF FIBROSIS AND LYMPHOCYTIC INFILTRATE IN SUBMANDIBULAR SALIVARY GLAND; NOT TABULATED.		
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 1-21,2-22,4-24,5-25,6-26,7-27,8-28]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82243

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 9-7]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 11-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 3-6,4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
	Pancreatic	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 5-7]			
[Leukemia Mononuclear TGLS = 8-3]			
[Pigmentation TGLS = 5-7]			
[Pigmentation TGLS = 8-3]			
Peritoneum		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82244

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.

* Pituitary Gland

Pars Distalis

Cyst

Moderate

Pars Intermed

Cyst

Moderate

Note: FOCUS OF PALE-STAINING CELLS IN PARS DISTALIS; NOT TABULATED.

* Preputial Gland

Adenoma

[Adenoma TGLS = 1-8]

* Prostate

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 9-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 529

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-79919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose			
Note: MODERATE HEMORRHAGE IN NASAL PASSAGES; NOT TABULATED.			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Esophagus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone	Cranium	Osteopetrosis	Mild
[Osteopetrosis TGLS = 12-24]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 10-6]			
[Leukemia Mononuclear TGLS = 10-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 11-3]			
[Pigmentation TGLS = 11-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82353

ORGAN AND ACCOUNTABLE SITE STATUS

Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.			
* Skin	Subcut Tiss	Fibroma Keratoacanthoma	Multiple
[Fibroma TGLS = 2-22,13-26]			
[Keratoacanthoma TGLS = 1-21]			
* Spleen		Fibrosis Leukemia Mononuclear	Marked
[Fibrosis TGLS = 4-23]			
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate
[Adenoma TGLS = 5-7]			
[Atrophy TGLS = 6-7]			
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder	Transit Epithe Transit Epithe	Hyperplasia Papilloma	Mild
[Papilloma TGLS = 8-25]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 569

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	Lacrimal Gland
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	Peripheral Nerve	* Prostate	* Seminal Vesicle
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Brain		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
[Rhabdomyosarcoma TGLS = 5-21]			
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
[Rhabdomyosarcoma TGLS = 3-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: PITUITARY GLAND ADENOMA IS SMALL (APPEARS TO BE IN AN EARLY STAGE).			
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 4-22]			
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 6-23]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[Adenoma TGLS = 1-7]			
* Thyroid Gland		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 569

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80203

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 15-30,16-31]		
	[Hyperplasia TGLS = 14-6]		
	[Leukemia Mononuclear TGLS = 14-6]		
* Lung	Alveolar Epith	Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 21-2]		
	[Leukemia Mononuclear TGLS = 20-2]		
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82354

ORGAN AND ACCOUNTABLE SITE STATUS

Popliteal

Leukemia Mononuclear

Renal

Leukemia Mononuclear

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 19-3]

[Leukemia Mononuclear TGLS = 17-32]

[Leukemia Mononuclear TGLS = 11-27]

[Leukemia Mononuclear TGLS = 12-28]

[Leukemia Mononuclear TGLS = 13-29]

[Leukemia Mononuclear TGLS = 3-22]

[Leukemia Mononuclear TGLS = 22-33]

* Lymph Node, Mandibular

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-8]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-5]

* Pancreas

Atrophy

Minimal

* Pituitary Gland

Leukemia Mononuclear

* Preputial Gland

Atrophy

Mild

Inflammation

Chronic, Moderate

* Prostate

Leukemia Mononuclear

* Salivary Glands

Leukemia Mononuclear

Skeletal Muscle

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-21]

* Skin

Subcut Tiss

Fibroma

Subcut Tiss

Lipoma

[Fibroma TGLS = 5-24,23-34,24-35]

[Lipoma TGLS = 4-23]

* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

[Fibrosis TGLS = 9-25,10-26]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 7-7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82354

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus [Leukemia Mononuclear TGLS = 18-3]		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Lung Alveolar Epith Hyperplasia;Skin Subcut Tiss Fibroma

Animal Note: LIPOMA ON SLIDE 23 AND FIBROMAS ON SLIDES 24 AND 35 ARE INFILTRATED WITH LEUKEMI A MONUC.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-22]			
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Moderate
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
* Prostate	Ventral	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,3-23,4-24,5-25]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
Note: MODERATE MARROW CONGESTION; NOT TABULATED.			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
Note: DIFFUSE GLYCOGEN DEPLETION; NOT TABULATED.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Intermed	Adenoma	
* Preputial Gland		Atrophy	Moderate
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
Note: THE FIBROMA ON SLIDE 25 CONTAINS EXTENSIVE ADIPOSE TISSUE.			
[Fibroma TGLS = 3-21,4-22,5-23,8-25,9-26]			
[Fibrosarcoma TGLS = 6-24]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 1-7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81787

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-7-1]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 603

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
		[Clear Cell Focus TGLS = 6-6]	
		[Leukemia Mononuclear TGLS = 5-6]	
* Pancreas		Atrophy	Moderate
Peritoneum		Mesothelioma Malignant	
		Note: MESOTHELIOMA MAL IS ALSO ON SLIDE 7.	
		[Mesothelioma Malignant TGLS = 2-21]	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 4-22]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
		[Hematopoietic Cell Proliferation TGLS = 3-6]	
		[Leukemia Mononuclear TGLS = 3-6]	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 603

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80525

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	Moderate
* Heart		Cardiomyopathy	Minimal
Note: MINIMAL AGGREGATION OF HEMOSIDERIN-FILLED MACROPHAGES IN SUBENDOCARDIUM; NOT TABULATED.			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Focal, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
Note: ALV BRON ADEN HAS BEEN DETACHED AND IS LYING ADJACENT TO LUNG SECTION.			
[Alveolar/Bronchiolar Adenoma TGLS = 6-2]			
[Hyperplasia TGLS = 7-2]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82355

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Chronic, Moderate

* Spleen

Hematopoietic Cell Proliferation

Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 555

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 621

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Prostate	* Seminal Vesicle
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 5-5]			
* Liver		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Mild
	Centrilobular	Mesothelioma Malignant	Metastatic (Peritoneum)
[Mesothelioma Malignant TGLS = 8-22]		Necrosis	Moderate
[Necrosis TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 7-3]			
[Pigmentation TGLS = 7-3]			
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA IS ON SLIDE 8.			
* Nose		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDES 4, 5, 6, AND 7.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 621

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80880

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 2-21]

* Pituitary Gland

Pars Distalis

Cyst

Moderate

* Preputial GI

Note: PREPUTIAL GL IS PRESENT ON SLIDE 7-1.

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Islets, Pancreatic		Carcinoma	
Note: ISLET ADENOMA IS ON SLIDE 4.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 7-6]			
[Clear Cell Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
[Inflammation TGLS = 6-8]			
* Skin	Subcut Tiss	Fibroma	Multiple
		Histiocytic Sarcoma	
[Fibroma TGLS = 2-21,4-23]			
[Histiocytic Sarcoma TGLS = 3-22,10-24]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82264

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 8-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 625 PPM

DISP: Natural Death

HISTO: 98-82356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-10]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: EOSIN FOCUS IS ALSO ON SLIDE 6.			
[Eosinophilic Focus TGLS = 19-29]			
[Hepatodiaphragmatic Nodule TGLS = 17-28]			
[Leukemia Mononuclear TGLS = 11-6]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 16-2]			
[Infiltration Cellular TGLS = 16-2]			
Lymph Node	Iliac	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 625 PPM

DISP: Natural Death

HISTO: 98-82356

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreatic
Renal

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 14-27]
[Leukemia Mononuclear TGLS = 9-7]
[Leukemia Mononuclear TGLS = 5-24]
[Leukemia Mononuclear TGLS = 13-26]

* Lymph Node, Mandibular

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-8]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 12-5]

* Pancreas

Leukemia Mononuclear

Peritoneum

Mesothelioma Malignant

Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.

[Mesothelioma Malignant TGLS = 7-25]

* Preputial Gland

Inflammation

Chronic, Moderate

* Prostate

Leukemia Mononuclear

* Skin

Subcut Tiss

Fibroma

Multiple

[Fibroma TGLS = 1-21,2-22,3-23,21-30]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 8-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 6-7]

* Thymus

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 15-3]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82265

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21,2-22,3-23,4-24,8-27]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-7]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 3

SEX: Male

DAY ON TEST: 616

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 691

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Mild
* Liver	Centrilobular	Clear Cell Focus	
		Necrosis	Mild
		Necrosis	Focal, Marked
[Necrosis TGLS = 6-22]			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 691

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81857

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 1-21]			
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
* Preputial Gland		Inflammation	Chronic, Mild
Note: POSSIBLE CARCINOMA IN SITU IN PREPUTIAL GLAND; NOT TABULATED.			
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 2-22,5-23]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Carcinoma	
Note: C CELL CARCINOMA IS METASTATIC TO MEDIASTINAL LYMPH NODE (SLIDE 3-1).			
[Carcinoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82357

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Granular Cell Tumor Benign Hydrocephalus	Mild
[Granular Cell Tumor Benign TGLS = 7-25]			
* Epididymis		Atypia Cellular	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum	Mesothelium	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,4-22,5-23,6-24]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2-7]			
[Atrophy TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 636

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-81100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Nose	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
Note: CYSTIC AREA PRESENT WITHIN NECROTIC MESENTERIC FAT; NOT TABULATED. [Necrosis TGLS = 5-23]			
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDES 7 AND 23. [Mesothelioma Malignant TGLS = 4-22]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 636

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-81100

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith

Atrophy

Marked

Interstit Cell

Hyperplasia

Mild

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 3-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		[Alveolar/Bronchiolar Adenoma TGLS = 2-2]	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
		[Fibroma TGLS = 1-21]	
		[Fibrosarcoma TGLS = 4-23]	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
Zymbal's Gland		Carcinoma	
		[Carcinoma TGLS = 3-22]	

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82358

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 3

SEX: Male

DAY ON TEST: 650

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-81788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Lung		Congestion	Moderate
		Infiltration Cellular	Histiocyte, Mild
[Congestion TGLS = 5-2]			
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 2-21,6-22]			
[Lipoma TGLS = 8-23]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 3

SEX: Male

DAY ON TEST: 650

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-81788

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-7-1]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 707

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
[Basophilic Focus TGLS = 6-6]			
[Clear Cell Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 2-21,3-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 707

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82359

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 3

SEX: Male

DAY ON TEST: 559

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDES 4 AND 7.			
[Mesothelioma Malignant TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thymus		Thymoma Benign	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 3

SEX: Male

DAY ON TEST: 559

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80126

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 3

SEX: Male

DAY ON TEST: 658

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Leukemia Mononuclear	Fatty, Moderate Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Moderate
	[Pigmentation TGLS = 9-5]		
* Liver	Bile Duct	Eosinophilic Focus Hyperplasia Leukemia Mononuclear Mixed Cell Focus	Moderate
	[Leukemia Mononuclear TGLS = 8-6]		
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 10-2]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIOMA MAL IS ALSO ON SLIDE 7. [Mesothelioma Malignant TGLS = 6-24]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 3

SEX: Male

DAY ON TEST: 658

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81789

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Atrophy

Moderate

Cyst

Moderate

Inflammation

Chronic, Mild

[Cyst TGLS = 7-8]

* Prostate

Inflammation

Chronic, Mild

Note: EXCESSIVE CORPORA AMYLACEA IN PROSTATE; MORPHOLOGY NOT AVAILABLE ON TDMS.

* Skin

Subcut Tiss

Fibroma

Multiple

[Fibroma TGLS = 1-21,2-22,3-23]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-6]

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Necrosis	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Minimal
	[Leukemia Mononuclear TGLS = 7-5]		
	[Necrosis TGLS = 6-5]		
	[Nephropathy TGLS = 6-5]		
	[Pigmentation TGLS = 6-5]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6]		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-3]		
	[Leukemia Mononuclear TGLS = 5-7]		
	[Leukemia Mononuclear TGLS = 10-23]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82360

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Lipoma TGLS = 12-22]		Lipoma	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland [Adenoma TGLS = 13-1]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Skin [Fibroma TGLS = 1-21,14-24]	Subcut Tiss	Fibroma	Multiple
* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
[Hyperplasia TGLS = 11-4] [Ulcer TGLS = 11-4]			
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81858

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 4-7]

* Thyroid Gland

Ultimobranchial Cyst

Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 3

SEX: Male

DAY ON TEST: 378

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-78904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 3-23]			
[Pigmentation TGLS = 3-23]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Dilatation	Minimal
Mesentery		Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21,2-22]			
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin			
Note: SKIN SECTION IS ATTACHED TO PREPUTIAL GLAND.			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
* Stomach, Glandular		Erosion	Mild

PRIMARY CAUSE OF DEATH

- Mesentery Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Gliosis	Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate

[Atrophy TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 3

SEX: Male

DAY ON TEST: 499

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
Note: LOCALIZED AREA OF SPINDLE CELL PROLIFERATION IN MYOCARDIUM, NOT TYPICAL OF CARDIOMYOPATHY; NOT TABULATED.			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
		[Leukemia Mononuclear TGLS = 8-6]	
		[Vacuolization Cytoplasmic TGLS = 8-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
		[Leukemia Mononuclear TGLS = 10-23]	
		[Pigmentation TGLS = 10-23]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 9-5]	
Mesentery		Hemorrhage	Marked
		[Hemorrhage TGLS = 3-22]	
Peritoneum		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 3

SEX: Male

DAY ON TEST: 499

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79476

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.

[Mesothelioma Malignant TGLS = 1-21]

* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
[Ulcer TGLS = 11-24]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 7-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 3

SEX: Male

DAY ON TEST: 707

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-2]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Marked
[Hemorrhage TGLS = 6-3]			
[Pigmentation TGLS = 6-3]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 2-21,3-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 3

SEX: Male

DAY ON TEST: 589

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Liver	Lymph Node	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 4-6]		
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Mild
	[Adenoma TGLS = 3-7]		
	[Atrophy TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 3

SEX: Male

DAY ON TEST: 641

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-81356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Mild
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Note: AGONAL CONGESTION IN LUNGS; NOT TABULATED ON TDMS.			
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Cyst	Moderate
[Cyst TGLS = 2-8]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 597

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hemorrhage	Marked
		Necrosis	Focal, Moderate
	[Basophilic Focus TGLS = 13-30,14-31]		
	[Hemorrhage TGLS = 10-27]		
	[Necrosis TGLS = 10-27]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Atrophy	Mild
	[Atrophy TGLS = 3-8]		
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 4-21,5-22,6-23,7-24,8-25,9-26,11-28,12-29]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Urinary Bladder		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 597

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80499

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 527

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Seminal Vesicle	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Minimal
	[Nephropathy TGLS = 4-5]		
* Liver		Infiltration Cellular	Mixed Cell, Mild
	Note: MARKED GLYCOGEN DEPLETION; NOT TABULATED.		
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Minimal
* Prostate		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	
	[Fibrosarcoma TGLS = 1-21]		
	[Lipoma TGLS = 2-22]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Stomach, Glandular		Erosion	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 10-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 8-6]			
[Clear Cell Focus TGLS = 8-6]			
[Eosinophilic Focus TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Note: MODERATE INFILTRATION OF HEMOSIDERIN-FILLED MACROPHAGES IN AREA OF HYPERPLASIA; NOT TABULATED.			
[Hyperplasia TGLS = 6-1]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 5-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82345

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Ventral	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	[Fibroma TGLS = 1-21,3-23,4-24]		
	[Fibrosarcoma TGLS = 2-22]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
	[Hematopoietic Cell Proliferation TGLS = 7-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 9-7]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Moderate
		Clear Cell Focus	
	[Angiectasis TGLS = 4-22]		
	[Clear Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Minimal
		Inflammation	Chronic, Marked
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
	Note: A FIBROSARCOMA IS ALSO PRESENT ON SLIDE 8.		
	[Fibrosarcoma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81859

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 636

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* 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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Liver		Angiectasis	Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Mixed Cell Focus	
Note: MIXED CL FOCUS IS ON SLIDE 25 (NO GROSS LESION DOCUMENTED ON LIVER SLIDE 25 ON IANR).			
		[Angiectasis TGLS = 12-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Atrophy	Moderate
		[Atrophy TGLS = 10-8]	
* Skin	Subcut Tiss	Fibroma	Multiple
		[Fibroma TGLS = 1-21,2-22,3-23,4-24]	
* Spleen		Pigmentation	Moderate
* Stomach, Glandular		Erosion	Moderate
		[Erosion TGLS = 11-4]	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 636

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81101

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Duodenum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 8-5]		
* Liver		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	Centrilobular	Necrosis	Moderate
	Note: EOSINOPHILIC FOCI ARE ON SLIDES 6 AND 28.		
	[Hepatodiaphragmatic Nodule TGLS = 14-28]		
	[Mixed Cell Focus TGLS = 9-6]		
	[Necrosis TGLS = 9-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Pigmentation	Marked
	[Pigmentation TGLS = 10-30]		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL ALSO PRESENT ON SLIDES 4, 5, 6, AND 7.		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81102

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 1-21]

* Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Moderate

* Preputial Gland

Atrophy

Mild

Inflammation

Chronic, Mild

* Skin

Subcut Tiss

Fibroma

Multiple

Subcut Tiss

Lipoma

[Fibroma TGLS = 4-23,5-24,13-27]

[Lipoma TGLS = 11-25,12-26]

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 685

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-10]			
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 6-5]			
* Liver		Clear Cell Focus	
		Necrosis	Focal, Minimal
[Clear Cell Focus TGLS = 7-6]			
[Necrosis TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIOMA MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 3-22]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 685

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81860

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 391

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-78905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Brain		Compression	Marked
		Hydrocephalus	Mild
	Cranial Nerve	Schwannoma Malignant	
	[Schwannoma Malignant TGLS = 4-23]		
Eye		Schwannoma Malignant	Metastatic (Brain)
	[Schwannoma Malignant TGLS = 2-21]		
Harderian Gland		Schwannoma Malignant	Metastatic (Brain)
	[Schwannoma Malignant TGLS = 3-22]		
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- Brain Cranial Nerve Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 1-21]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 4-8]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-22]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 5-7]			
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma
 CONTRIBUTORY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
Note: FATTY DEGENERATION IS ON SLIDE 26.			
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 8-26]			
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Atrophy	Marked
	Bile Duct	Hyperplasia	Mild
	Kupffer Cell	Pigmentation	Marked
Note: LIVER PIGMENT IS ON SLIDE 27.			
[Atrophy TGLS = 9-27]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-25]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 12-1]			
* Preputial Gland		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81861

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Ventral	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,2-22,3-23,4-24,10-28,11-29]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 7-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Benign

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 658

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Centrilobular	Necrosis	Minimal
[Eosinophilic Focus TGLS = 14-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 15-33]			
[Pigmentation TGLS = 15-33]			
* Nose		Foreign Body	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDES 4, 5, 6, AND 7.			
[Mesothelioma Malignant TGLS = 6-21]			
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 11-8]			
* Prostate		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 658

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81608

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

Multiple

Note: TGL 19-32 IS SKIN FIBROMA.

Note: FIBROMA ALSO PRESENT ON SLIDE 8 WITH REGULAR SKIN SECTION.

[Fibroma TGLS = 2-22,3-23,4-24,5-25,7-26,8-27,9-28,10-29,18-31]

* Spleen

Fibrosis

Moderate

Hematopoietic Cell Proliferation

Moderate

[Fibrosis TGLS = 13-30]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 12-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 615

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Centrilobular	Hepatocellular Adenoma	
		Mixed Cell Focus	
		Necrosis	Minimal
Note: TGL 17-34 IS A BLOOD VESSEL; NO CORRESPONDING MICROSCOPIC LESION.			
Note: DIFFUSE GLYCOGEN DEPLETION; NOT TABULATED.			
[Eosinophilic Focus TGLS = 16-33]			
[Hepatocellular Adenoma TGLS = 12-29]			
[Mixed Cell Focus TGLS = 16-33]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland			
Note: MAMMARY GLAND IS PRESENT ON SLIDE 24.			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Note: ACINAR HYPERPLASIA IS ON SLIDE 4.			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 3-8]			
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 615

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80741

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss Subcut Tiss	Fibroma Lipoma	Multiple
Note: FIBROMA ALSO PRESENT ON SLIDE 8 ADJACENT TO PREPUTIAL GLAND. [Fibroma TGLS = 2-21,4-22,5-23,8-26,9-27,10-28,13-30,14-31,15-32] [Lipoma TGLS = 6-24,7-25]			
* Spleen	[Hematopoietic Cell Proliferation TGLS = 11-6]	Hematopoietic Cell Proliferation	Marked
* Testes	Bilateral, Interstit Cell [Adenoma TGLS = 1-7]	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 7-6]			
[Eosinophilic Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
[Fibroma TGLS = 2-22,4-24]			
[Fibrosarcoma TGLS = 1-21,3-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82346

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Fibrosarcoma

Note: FIBROSARC IS ALSO PRESENT ON SLIDE 6.

[Fibrosarcoma TGLS = 6-25]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma;Spleen Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 685

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Preputial Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Mild
[Basophilic Focus TGLS = 6-6]			
[Hyperplasia TGLS = 6-6]			
[Necrosis TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDES 4, 6, AND 7.			
[Mesothelioma Malignant TGLS = 2-21,4-22]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Note: CELLS IN THE FOCUS OF HYPERPLASIA ARE MARKEDLY VACUOLATED.			
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 685

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81862

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 7-23,8-24,9-25,10-26,11-27.12-28]

* Spleen

Hematopoietic Cell Proliferation

Marked

* Stomach, Glandular

Erosion

Moderate

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Clear Cell Focus TGLS = 11-6]		
	[Infiltration Cellular TGLS = 11-6]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]		
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIOMA MAL (SLIDES 7 AND 7-1) IS IN VERY EARLY STAGE.		
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
	[Atrophy TGLS = 12-8]		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 2-22,3-23,4-24,5-25,6-26]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 8-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81790

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 14-7-1]

* Urinary Bladder

[Papilloma TGLS = 13-8]

Papilloma

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 685

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Mild
Note: MODERATE FIBROSIS IN ONE EPIDIDYMIS; NOT TABULATED.			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 6-24]			
* Lung		Infiltration Cellular	Histiocyte, Mild
Peritoneum	Mesothelium	Hyperplasia	Minimal
* Preputial Gland		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
[Fibroma TGLS = 7-25,8-26]			
[Fibrosarcoma TGLS = 3-21,4-22,5-23]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma
 CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
	Degeneration	Fatty, Mild
	Hyperplasia	Focal, Mild
* Bone Marrow	Hyperplasia	Marked
* Heart	Cardiomyopathy	Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Eosinophilic Focus	
[Basophilic Focus TGLS = 11-6]		
[Clear Cell Focus TGLS = 11-6]		
[Eosinophilic Focus TGLS = 11-6]		
* Lung	Alveolar/Bronchiolar Adenoma	
	Infiltration Cellular	Histiocyte, Mild
[Alveolar/Bronchiolar Adenoma TGLS = 12-2]		
* Lymph Node, Mandibular	Hemorrhage	Mild
	Pigmentation	Moderate
Peritoneum	Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.		
[Mesothelioma Malignant TGLS = 2-22]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:58
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 147	TRT#: 5 DOSE: 1250 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 98-82260
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,5-23,6-24,7-25,8-26,9-27,13-29]			
* Spleen		Fibrosis	Marked
[Fibrosis TGLS = 10-28]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
[Atrophy TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 9-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 8-27]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25]			
[Lipoma TGLS = 6-26]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 7-7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81791

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Intestine Large, Cecum		Leiomyosarcoma	
[Leiomyosarcoma TGLS = 10-26]			
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 8-6]			
[Eosinophilic Focus TGLS = 8-6]			
[Mixed Cell Focus TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 9-2]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Atrophy	Mild
		Cyst	Moderate
		Inflammation	Chronic, Moderate
* Prostate	Ventral	Hyperplasia	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:58
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 149	TRT#: 5	SEX: Male	DAY ON TEST: 714
	DOSE: 1250 PPM	DISP: Moribund Sacrifice	HISTO: 98-82347

ORGAN AND ACCOUNTABLE SITE STATUS

	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 4-22,5-23,6-24]			
[Fibrosarcoma TGLS = 3-21]			
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Minimal
Note: MILD PROLIFERATION OF RETICULOENDOTHELIAL-LIKE CELLS ON SLIDE 25; NOT TABULATED.			
[Hemangiosarcoma TGLS = 7-25]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Fibrosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Intestine Large;Cecum Leiomyosarcoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 616

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-10]			
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
Mesentery		Fibroma	
	Fat	Necrosis	Moderate
[Fibroma TGLS = 5-23]			
[Necrosis TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 6-8]			
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 7-24,8-25,9-26,10-27,11-28,12-29,13-30]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 616

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81050

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-22]

* Testes

[Adenoma TGLS = 1-7]

* Urinary Bladder

Bilateral, Interstit Cell

Transit Epithe

Pigmentation

Adenoma

Hyperplasia

Moderate

Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Mesentery Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 603

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Necrosis	Focal, Marked
[Necrosis TGLS = 5-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Atrophy	Moderate
		Hemorrhage	Mild
Mesentery			
Note: MAMMARY GLAND IS ADJACENT TO PREPUTIAL GLAND.			
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 2-8]			
* Salivary Glands		Atrophy	Moderate
		Sarcoma	
[Sarcoma TGLS = 4-22]			
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,6-24]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 603

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80743

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland		Sarcoma	Metastatic (Salivary Glands)

PRIMARY CAUSE OF DEATH

-

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 706

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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
* Seminal Vesicle	Skeletal Muscle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Pituitary Gland	* Preputial Gland
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
		Necrosis	Focal, Mild
[Leukemia Mononuclear TGLS = 13-6]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25,6-26,7-28,9-29,10-30]			
[Fibrosarcoma TGLS = 17-33]			
[Lipoma TGLS = 11-31]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 706

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82348

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 12-7]			
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLS = 14-3]	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma;Skin Subcut Tiss Lipoma

Animal Note: TGL 16 IS A SECTION OF DETACHED LIVER ADJACENT TO A SECTION OF DIAPHRAGM.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 5

SEX: Male

DAY ON TEST: 515

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Centrilobular	Necrosis	Moderate
* Lymph Node, Mandibular		Pigmentation	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIOMA MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 6-7]			
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,3-23,8-24,9-25]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 7-6]			
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 10-26]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 5

SEX: Male

DAY ON TEST: 652

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Centrilobular	Necrosis	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Adenoma	
		Atrophy	Moderate
[Atrophy TGLS = 1-8]			
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 2-21,4-23,5-24,6-25,10-27]			
[Fibrosarcoma TGLS = 3-22]			
[Lipoma TGLS = 7-26]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 5

SEX: Male

DAY ON TEST: 652

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81794

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 9-7-1]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 636

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Atypia Cellular	Moderate Fatty, Moderate Focal, Moderate
* Epididymis		Nephropathy	Moderate
* Kidney		Basophilic Focus	Minimal
* Liver		Clear Cell Focus	
	[Basophilic Focus TGLS = 7-6]		
	[Clear Cell Focus TGLS = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 1-21]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy Inflammation	Moderate Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 4-22,5-23,8-25,9-26,10-27,11-28]		
* Spleen		Fibrosis	Moderate
	[Fibrosis TGLS = 6-24]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 636

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81103

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 5

SEX: Male

DAY ON TEST: 628

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Diffuse, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 12-5]			
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
Note: LIVER GLYCOGEN DEPLETION; NOT TABULATED.			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Atrophy	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 8-25]			
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 3-8]			
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 4-21,5-22,6-23,7-24,9-26]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 5

SEX: Male

DAY ON TEST: 628

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81051

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLS = 10-27]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* 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	* Nose
* Parathyroid Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 14-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 13-6]			
[Clear Cell Focus TGLS = 13-6]			
[Mixed Cell Focus TGLS = 13-6]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Fibroadenoma	
Note: MAMMARY GL HYPERPLASIA IS ON SLIDE 29.			
[Fibroadenoma TGLS = 3-23,4-24]			
* Pancreas		Atrophy	Minimal
Peritoneum	Mesothelium	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Intermed	Cyst	Moderate
[Angiectasis TGLS = 15-1]			
* Preputial Gland		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82237

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Ventral	Hyperplasia	Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
		Inflammation	Chronic, Moderate
[Edema TGLS = 2-22]			
[Fibroma TGLS = 1-21,5-25,6-26,8-28,16-30]			
[Fibrosarcoma TGLS = 7-27,9-29]			
[Inflammation TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 10-7]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 564

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Necrosis	Mild
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 9-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
		Keratoacanthoma	
[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25,7-27,8-28]			
[Fibrosarcoma TGLS = 6-26]			
[Keratoacanthoma TGLS = 14-29]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 10-6]			
* Stomach, Glandular		Erosion	Minimal
[Erosion TGLS = 13-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 12-7]			
* Urinary Bladder		Fibrosis	Marked
Note: FIBROSIS CONSISTS OF EOSINOPHILIC COLLAGEN-LIKE MATERIAL IN WALL OF URINARY BLADDER.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 564

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80204

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 5

SEX: Male

DAY ON TEST: 567

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone | * Brain |
| * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|--|----------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Epididymis | | Atypia Cellular | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Metaplasia | Osseous, Mild |
| Peritoneum | | Mesothelioma Malignant | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Skin | Subcut Tiss | Fibroma | Multiple |
| Note: FIBROMA ALSO PRESENT ON SLIDE 8. | | | |
| [Fibroma TGLS = 1-21,2-22,3-23] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Testes | Interstit Cell | Adenoma | |
| | Interstit Cell | Hyperplasia | Minimal |
| [Adenoma TGLS = 6-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 5

SEX: Male

DAY ON TEST: 567

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80205

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
	[Hyperplasia TGLS = 12-2-1]		
* Mammary Gland		Fibroadenoma	
	Note: FIBROADENOMA ALSO PRESENT ON SLIDE 8.		
	[Fibroadenoma TGLS = 15-28]		
* Pancreas		Atrophy	Marked
	Note: PANCREATIC ATROPHY IS EVIDENT ON SLIDE 25.		
Peritoneum		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 5-24,11-25]		
* Preputial Gland		Atrophy	Moderate
	[Atrophy TGLS = 8-8]		
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	[Fibroma TGLS = 2-22,3-23,14-27]		
	[Fibrosarcoma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81104

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7-7]			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 5

SEX: Male

DAY ON TEST: 502

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	Marked
		Nephropathy	Minimal
[Cyst TGLS = 4-5]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
Note: LIPOMA (SLIDE 23) CONTAINS CONSIDERABLE FIBROMATOUS TISSUE.			
[Fibroma TGLS = 1-21,2-22]			
[Lipoma TGLS = 3-23]			
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 14-32]			
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Clear Cell Focus TGLS = 17-35]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-25]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 1-21,15-33]			
* Salivary Glands		Atrophy	Mild
Skeletal Muscle		Mesothelioma Malignant	Metastatic (Peritoneum)
[Mesothelioma Malignant TGLS = 15-33]			
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 3-23,4-24,6-26,7-27,8-28,9-29,10-30,11-31,16-34]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81105

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 2-22]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 13-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
Note: CYST IN ADRENAL CORTEX; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
	[Pigmentation TGLS = 18-5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
	[Basophilic Focus TGLS = 13-6]		
	[Clear Cell Focus TGLS = 13-6]		
	[Leukemia Mononuclear TGLS = 19-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Lymph Node, Mandibular			
	[Leukemia Mononuclear TGLS = 11-8]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 15-32]		
* Nose		Foreign Body	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81864

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith	Hyperplasia	Mild
Peritoneum	Inflammation	Chronic, Moderate
Note: MESOTHELIOMA MAL IS ALSO ON SLIDE 7. [Mesothelioma Malignant TGLS = 14-30]	Mesothelioma Malignant	
* Pituitary Gland	Cyst	Moderate
* Preputial Gland	Atrophy	Mild
	Inflammation	Chronic, Mild
* Skin	Fibroma	
[Fibroma TGLS = 2-21,3-22,4-23,5-24,6-25,7-26,8-27,9-28,10-29]		
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 16-6]		
* Testes	Adenoma	
[Adenoma TGLS = 12-7]		
* Thyroid Gland	Hyperplasia	Mild
Tongue	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 17-33]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 483

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lymph Node, Mandibular		Pigmentation	Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:58

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 569

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 8-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
	Centrilobular	Necrosis	Mild
[Eosinophilic Focus TGLS = 11-6-1]			
[Mixed Cell Focus TGLS = 10-27]			
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 1-21,7-25,9-26]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-22,4-23,5-24,12-28]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 569

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80198

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 5

SEX: Male

DAY ON TEST: 432

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 5

SEX: Male

DAY ON TEST: 384

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-78906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 2-8]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 502

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
		[Hepatodiaphragmatic Nodule TGLS = 6-23]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
		[Atrophy TGLS = 7-8]	
* Skin	Subcut Tiss	Fibroma	Multiple
		[Fibroma TGLS = 1-21,2-22,8-24]	
* Spleen		Pigmentation	Moderate
* Stomach, Glandular		Erosion	Mild
		[Erosion TGLS = 9-25]	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 502

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79478

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

[Atrophy TGLS = 3-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 576

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 5-5]			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
[Clear Cell Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 2-22,7-23]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 576

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80450

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Mild

Interstit Cell

Hyperplasia

Moderate

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Brain		Compression	Mild
[Compression TGLS = 5-1]			
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 7-5]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
Note: TWO DISTINCT CELL POPULATIONS IN ADRENAL GL ADENOMA (POSSIBLY REPRESENTS TWO SEPARATE ADENOMAS).			
[Adenoma TGLS = 4-1]			
* Preputial Gland		Atrophy	Moderate
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22]			
* Spleen		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82238

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Erosion

Moderate

* Testes

Interstit Cell

Adenoma

[Adenoma TGLS = 9-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 5

SEX: Male

DAY ON TEST: 483

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-7]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,3-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLS = 15-6]		
	[Clear Cell Focus TGLS = 15-6]		
	[Eosinophilic Focus TGLS = 15-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	

Note: TGLS 11-31 AND 12-32 ALSO ARE SKIN FIBROMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82349

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25,6-26,7-27,8-28,10-30]

[Lipoma TGLS = 9-29]

* Spleen

Fibrosis
Pigmentation

Marked
Moderate

[Fibrosis TGLS = 13-33]

* Testes

Interstit Cell
Germinal Epith

Adenoma
Atrophy

Mild

[Adenoma TGLS = 14-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Lymph Node, Mesenteric

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	[Cataract TGLS = 1-21]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hemorrhage	Moderate
		Hepatodiaphragmatic Nodule	
		Necrosis	Focal, Marked
	[Hemorrhage TGLS = 10-28]		
	[Hepatodiaphragmatic Nodule TGLS = 11-29]		
	[Necrosis TGLS = 10-28]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 5-23,6-24]		
* Pancreas		Atrophy	Minimal
Peritoneum	Mesothelium	Hyperplasia	Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80451

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

Multiple

Note: FIBROMA ON SLIDE 32 CONTAINS EXTENSIVE FATTY TISSUE.

[Fibroma TGLS = 4-22,7-25,8-26,9-27,12-30,13-31,14-32]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 5

SEX: Male

DAY ON TEST: 531

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIOMA MAL (SLIDE 7) IS IN EARLY STAGE.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
		[Fibroma TGLS = 1-21,2-22]	
		[Lipoma TGLS = 3-23]	
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
		[Adenoma TGLS = 4-7]	

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 5

SEX: Male

DAY ON TEST: 483

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 6-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Mild
[Fibrosis TGLS = 5-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 5

SEX: Male

DAY ON TEST: 483

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79284

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 5

SEX: Male

DAY ON TEST: 616

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLS = 6-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
	[Fibroma TGLS = 1-21]		
	[Lipoma TGLS = 2-22]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 5-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 5

SEX: Male

DAY ON TEST: 616

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81052

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 5

SEX: Male

DAY ON TEST: 676

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* 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
* Prostate	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Mild
[Thrombosis TGLS = 15-5]			
* Kidney	Renal Tubule	Necrosis	Mild
		Nephropathy	Minimal
[Necrosis TGLS = 9-25]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 16-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Mild
[Leukemia Mononuclear TGLS = 14-28]			
[Leukemia Mononuclear TGLS = 11-7]			
[Pigmentation TGLS = 14-28]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 5

SEX: Male

DAY ON TEST: 676

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81865

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 12-5]

* Mammary Gland

Dilatation

Moderate

Fibroadenoma

[Fibroadenoma TGLS = 18-26]

Peritoneum

Mesothelioma Malignant

Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.

* Preputial Gland

Atrophy

Moderate

[Atrophy TGLS = 5-8]

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

Multiple

[Fibroma TGLS = 1-21,2-22,3-23,4-24,19-27]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 8-6]

* Stomach, Forestomach

Ulcer

Mild

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Mild

[Adenoma TGLS = 7-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 5

SEX: Male

DAY ON TEST: 519

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Clear Cell Focus	
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Oral Mucosa		Hyperplasia	Moderate
[Hyperplasia TGLS = 4-9-2]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIOMA MAL (SLIDE 7) IS IN EARLY STAGE.			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-21]			
* Prostate		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 5

SEX: Male

DAY ON TEST: 658

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 10-2]			
* Nose	Respirat Epith	Foreign Body	Mild
		Hyperplasia	Chronic, Mild
		Inflammation	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS MORE VISIBLE ON SLIDE 7 THAN ON SLIDE 21.			
[Mesothelioma Malignant TGLS = 1-21]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
Note: PREPUTIAL GLAND CARCINOMA APPEARS TO BE IN EARLY STAGE OF DEVELOPMENT.			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 2-22,3-23,4-24,5-25,7-27,8-28,11-29,12-30]			
[Fibrosarcoma TGLS = 6-26]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 5

SEX: Male

DAY ON TEST: 658

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81609

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 9-6]		Hematopoietic Cell Proliferation	Marked
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 5

SEX: Male

DAY ON TEST: 519

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum	Mesothelium	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 5

SEX: Male

DAY ON TEST: 597

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
Note: EOSIN FOCUS ON SLIDES 6 AND 28.			
		[Eosinophilic Focus TGLS = 10-6]	
		[Hepatodiaphragmatic Nodule TGLS = 12-28]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 4-21]	
Mesentery	Fat	Necrosis	Moderate
		[Necrosis TGLS = 7-24]	
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
		[Atrophy TGLS = 1-8]	
* Prostate	Ventral	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 5

SEX: Male

DAY ON TEST: 597

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80500

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 6-23,8-25,11-27]

[Fibrosarcoma TGLS = 5-22]

* Spleen

Fibrosis

Mild

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Mild

[Fibrosis TGLS = 9-26]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Blood Vessel | * 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 |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--|----------------|----------------------------------|---------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| Note: TGL 8 IS A POSTMORTEM BLOOD CLOT; NO CORRESPONDING LESION OBSERVED. | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Necrosis | Focal, Moderate |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Marked |
| Note: MAMMARY GL HYPERPLASIA ALSO PRESENT ON SLIDE 8. | | | |
| [Fibroadenoma TGLS = 2-22] | | | |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Skin | Subcut Tiss | Fibroma | Multiple |
| [Fibroma TGLS = 1-21,6-24,7-25] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stom Gland | | | |
| Note: TGL 3-23 APPEARS TO BE SKIN FIBROMA WITHIN GLANDULAR STOMACH; (APPARENTLY INGESTED DURING SELF CANNIBALIZATION). | | | |
| * Testes | Interstit Cell | Adenoma | |
| [Adenoma TGLS = 5-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81053

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Salivary Glands
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
Note: CLEAR CELL FOCUS IS ON SLIDE 32.			
		[Basophilic Focus TGLS = 13-6]	
		[Eosinophilic Focus TGLS = 13-6]	
		[Hepatodiaphragmatic Nodule TGLS = 14-32]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Mild
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81866

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

Subcut Tiss

Fibroma

Multiple

Subcut Tiss

Lipoma

Note: FIBROMA ALSO INCLUDES TGLS 11-31,15-33,16-34; TDMS DID NOT ALLOW ROUTINE DOCUMENTATION. THE FIBROMA ON SLIDE 30 CONTAINS EXTENSIVE FATTY TISSUE.

[Fibroma TGLS = 1-21,2-22,3-23,4-24,6-26,7-27,8-29,9-29,10-30]

[Lipoma TGLS = 5-25]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 12-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 5

SEX: Male

DAY ON TEST: 512

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thymus		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Thymus Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 5

SEX: Male

DAY ON TEST: 512

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79613

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 5

SEX: Male

DAY ON TEST: 298

DOSE: 1250 PPM

DISP: Accidentally Killed

HISTO: 96-77634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Clear Cell Focus	
* Spleen	Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 5

SEX: Male

DAY ON TEST: 299

DOSE: 1250 PPM

DISP: Accidentally Killed

HISTO: 96-77635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Blood Vessel

* 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

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Preputial Gland

* Salivary Glands

* Seminal Vesicle

* Skin

* Stomach, Forestomach

* Stomach, Glandular

* Testes

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

OBSERVATIONS

* Kidney

Nephropathy

Minimal

* Nose

Foreign Body

* Prostate

Inflammation

Suppurative, Marked

* Spleen

Inflammation

Chronic, Mild

Pigmentation

Moderate

Note: MODERATE LYMPHOID FOLLICLE DEPLETION; NOT TABULATED.

PRIMARY CAUSE OF DEATH

- Nose Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 5

SEX: Male

DAY ON TEST: 299

DOSE: 1250 PPM

DISP: Accidentally Killed

HISTO: 96-77636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Nose	Inflammation	Suppurative, Mild
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PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 5

SEX: Male

DAY ON TEST: 589

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
* Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Mild
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 3-8]			
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,6-23]			
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 5

SEX: Male

DAY ON TEST: 589

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80452

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 5

SEX: Male

DAY ON TEST: 597

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Epididymis	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Marked
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
[Cyst TGLS = 13-31]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
Note: MIXED CL FOCUS AND EOSIN FOCUS ARE ON SLIDE 33.			
[Basophilic Focus TGLS = 15-6]			
[Clear Cell Focus TGLS = 15-6]			
[Hepatodiaphragmatic Nodule TGLS = 16-33]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Renal	Ectasia	Moderate
	Renal	Pigmentation	Moderate
[Ectasia TGLS = 14-32]			
[Pigmentation TGLS = 14-32]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 5

SEX: Male

DAY ON TEST: 597

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80501

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 12-30]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	Multiple
[Fibroma TGLS = 3-23,4-24,5-25,6-26]			
[Fibrosarcoma TGLS = 7-27]			
[Lipoma TGLS = 1-21,2-22,8-28]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Mild
[Fibrosis TGLS = 11-29]			
[Hematopoietic Cell Proliferation TGLS = 10-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 5

SEX: Male

DAY ON TEST: 523

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
	[Mineralization TGLS = 9-5]		
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
	[Clear Cell Focus TGLS = 5-24]		
	[Eosinophilic Focus TGLS = 6-25]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
	[Fibroma TGLS = 1-21,2-22]		
	[Fibrosarcoma TGLS = 4-23,7-26,8-27]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 5

SEX: Male

DAY ON TEST: 523

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79892

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 439

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Diffuse, Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL (SLIDE 7) APPEARS TO BE IN AN EARLY STAGE.			
* Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 3-8-1]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 2-22]			
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 5-6]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hemangioma	
		Hyperplasia	Mild
[Hemangioma TGLS = 4-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 439

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79016

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 569

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	
Lymph Node	Mediastinal	Pigmentation	Marked
	[Pigmentation TGLS = 10-26]		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 1-21,6-25]		
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Moderate
	[Inflammation TGLS = 7-8]		
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
	[Fibroma TGLS = 3-23,4-24]		
	[Fibrosarcoma TGLS = 2-22]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 569

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80199

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 11-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Preputial Gland Inflammation;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 540

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Clear Cell Focus TGLS = 7-25]		
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Moderate
	[Hemorrhage TGLS = 8-26]		
	[Pigmentation TGLS = 8-26]		
* Nose		Foreign Body	
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 2-21]		
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 3-22,4-23,5-24]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 193	TRT#: 7 DOSE: 2000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 540 HISTO: 97-80001
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-7] * Thyroid Gland	Interstit Cell C Cell	Hyperplasia Hyperplasia	Minimal Mild
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PRIMARY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 519

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7 AND IS IN EARLY STAGE OF DEVELOPMENT.			
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 4-8]			
* Prostate	Ventral	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,2-22,3-23,6-24,7-25,8-26,9-27,10-28]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 5-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 519

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79922

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 404

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-23]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Angiectasis	Marked
	Interstit Cell	Hyperplasia	Minimal
[Angiectasis TGLS = 3-7-1]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 502

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 9-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 8-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 1-21]			
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Hemangiopericytoma	
Note: THE FIBROMAS ON SLIDES 22 AND 26 CONTAIN EXTENSIVE FATTY TISSUE.			
[Fibroma TGLS = 2-22,10-25,11-26,12-27]			
[Hemangiopericytoma TGLS = 3-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 502

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79479

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 5-7]			
[Atrophy TGLS = 4-7]			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Pigmentation	Moderate
* Nose		Foreign Body	
* Pancreas	Acinus	Hyperplasia	Focal, Mild
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
		[Fibroma TGLS = 2-21,3-22,4-23,5-24,6-25,7-27,9-29,10-30,11-31]	
		[Lipoma TGLS = 8-28]	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
		[Adenoma TGLS = 1-7]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79984

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Prostate	* Seminal Vesicle
Spinal Cord	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 11-5]			
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Moderate
	Centrilobular	Necrosis	Mild
		Necrosis	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDES 4,5, AND 7.			
[Mesothelioma Malignant TGLS = 7-25,8-26]			
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 5-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80453

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
	[Fibroma TGLS = 1-21,4-24,13-28]		
	[Lipoma TGLS = 2-22,3-23]		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach		Edema	Mild
* Stomach, Glandular		Erosion	Moderate
	[Erosion TGLS = 12-27]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 10-7]		
* Thymus			
	Note: THYMUS IS PRESENT ON SLIDE 3.		

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 544

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 8-27]			
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 1-21,2-22,3-23,5-25]			
[Lipoma TGLS = 4-24]			
* Spleen		Fibrosis	Minimal
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
[Fibrosis TGLS = 7-26]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 544

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80049

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 6-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 632

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Pancreas	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Renal Tubule	Dilatation	Mild
		Nephropathy	Minimal
* Liver	Renal Tubule	Pigmentation	Minimal
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Focal, Mild
		[Infiltration Cellular TGLS = 9-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Marked
		[Pigmentation TGLS = 11-25]	
* Nose		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
		Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.	
		[Mesothelioma Malignant TGLS = 6-24]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 632

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81106

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Atrophy TGLS = 5-8]		Atrophy	Moderate
* Salivary Glands		Atrophy	Mild
* Skin [Fibroma TGLS = 1-21,2-22,3-23]	Subcut Tiss	Fibroma	
* Spleen [Hematopoietic Cell Proliferation TGLS = 8-6]		Hematopoietic Cell Proliferation	Mild
* Testes [Adenoma TGLS = 7-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Carcinoma TGLS = 12-3]	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 7

SEX: Male

DAY ON TEST: 544

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,2-22,3-23]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Tooth		Malformation	
[Malformation TGLS = 4-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 7

SEX: Male

DAY ON TEST: 544

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80050

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Transit Epithe

Inflammation

Chronic, Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 7

SEX: Male

DAY ON TEST: 586

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
		Pigmentation	Mild
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Mediastinal	Pigmentation	Marked
[Pigmentation TGLS = 10-25]			
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 8-7]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 5-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 1-21,2-22]			
[Fibrosarcoma TGLS = 3-23]			
[Lipoma TGLS = 4-24]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 202

TRT#: 7

SEX: Male

DAY ON TEST: 586

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80454

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 656

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Preputial Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 7-6]			
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA IS ON SLIDE 8-1.			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL (SLIDE 7-1) IS IN EARLY STAGE.			
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,2-22,3-23,4-24]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Mild
[Fibrosis TGLS = 6-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 656

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81792

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-7] * Urinary Bladder	Interstit Cell	Hyperplasia	Mild
	Transit Epithe	Fibrosis Hyperplasia	Moderate Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 479

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-79260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 4-5]			
* Liver	Centrilobular	Clear Cell Focus	
[Necrosis TGLS = 7-6]		Necrosis	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 5-22]			
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 2-8]			
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
Note: LIPOMA IS ON SLIDE 8.			
[Fibroma TGLS = 1-21]			
* Spleen	Capsule	Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 479

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-79260

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 8-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 7

SEX: Male

DAY ON TEST: 603

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Esophagus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 18-6]			
[Eosinophilic Focus TGLS = 18-6]			
[Mixed Cell Focus TGLS = 18-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[Angiectasis TGLS = 20-1]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 15-8]			
* Skin	Subcut Tiss	Fibroma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 7

SEX: Male

DAY ON TEST: 603

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80744

ORGAN AND ACCOUNTABLE SITE STATUS

Subcut Tiss

Fibrosarcoma

Note: FIBROMA ALSO HAS TGLS 11-31, 12-32, 13-33, AND 14-34; TDMS WOULD NOT ACCEPT ROUTINE ENTRY.

[Fibroma TGLS = 2-22,3-23,4-24,5-25,6-26,7-27,8-28,9-29,10-31]

[Fibrosarcoma TGLS = 1-21]

* Spleen

Fibrosis

Moderate

Pigmentation

Moderate

[Fibrosis TGLS = 16-35]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 17-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 7

SEX: Male

DAY ON TEST: 495

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Preputial Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	[Clear Cell Focus TGLS = 5-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 7

SEX: Male

DAY ON TEST: 495

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79447

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 7

SEX: Male

DAY ON TEST: 396

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-78907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Liver	Centrilobular	Necrosis	Minimal
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 7

SEX: Male

DAY ON TEST: 567

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-21]			
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 3-22,6-23,7-24,8-25]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Stomach, Glandular		Edema	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 7

SEX: Male

DAY ON TEST: 464

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Infarct	Minimal
* Liver		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 4-8]			
* Prostate		Inflammation	Chronic, Moderate
Note: MODERATE DEGREE OF FIBROSIS ASSOCIATED WITH INFLAMMATION; NOT TABULATED ON TDMS.			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 2-22]			
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 7

SEX: Male

DAY ON TEST: 544

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain [Carcinoma TGLS = 12-1]		Carcinoma	Metastatic (Pituitary Gland)
* Epididymis		Atypia Cellular	Marked
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Nose		Infiltration Cellular	Histiocyte, Minimal
Note: SUBMUCOSAL CYST BENEATH RESPIRATORY EPITHELIUM; NOT TABULATED.			
Peritoneum [Mesothelioma Malignant TGLS = 2-7]		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 4-21,5-22,6-23,7-24,8-25,9-26,10-27,11-28]			
* Spleen		Pigmentation	Mild
* Testes	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 7

SEX: Male

DAY ON TEST: 544

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80051

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 1-7]

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 7

SEX: Male

DAY ON TEST: 419

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Atrophy	Moderate
		Basophilic Focus	
	Kupffer Cell	Pigmentation	Marked
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Atrophy TGLS = 3-23]		
	[Pigmentation TGLS = 3-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	[Adenoma TGLS = 2-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 7

SEX: Male

DAY ON TEST: 419

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78992

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 523

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
Note: BASOPHILIC FOCUS AND EOSINOPHILIC FOCUS ARE ON SLIDE 28. [Hepatodiaphragmatic Nodule TGLS = 10-28]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 1-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
	Subcut Tiss	Lipoma	

Note: LIPOMA CONTAINS AREAS OF FIBROMATOUS PROLIFERATION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 523

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79923

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 4-22,5-23,6-24,9-27]

[Fibrosarcoma TGLS = 3-21,8-26]

[Lipoma TGLS = 7-25]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 7

SEX: Male

DAY ON TEST: 419

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adren Cortex			
Note: CYST IN ADRENAL CORTEX; MORPHOLOGY NOT AVAILABLE FOR TABULATION.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 3-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-23,7-24]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
[Hematopoietic Cell Proliferation TGLS = 5-6]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 7

SEX: Male

DAY ON TEST: 404

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Lymph Node, Mandibular		Pigmentation	Mild
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 3-23]			
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 5-24]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Minimal
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1,6-21+25]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 7

SEX: Male

DAY ON TEST: 404

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78939

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 7

SEX: Male

DAY ON TEST: 471

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* 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	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,3-23,4-24]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 7

SEX: Male

DAY ON TEST: 391

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 7-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 5-25]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Cytoplasmic Alteration	Minimal
	[Adenoma TGLS = 9-1]		
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
	[Atrophy TGLS = 1-8]		
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Note: FIBROMA ON SLIDE 21 CONTAINS EXTENSIVE FATTY TISSUE.		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 7

SEX: Male

DAY ON TEST: 391

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78908

ORGAN AND ACCOUNTABLE SITE STATUS

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

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma;Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 419

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 5-24]			
* Kidney	Renal Tubule	Dilatation	Moderate
		Nephropathy	Mild
* Liver		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.			
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1,2-21+22]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
[Fibrosis TGLS = 4-23]			
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 6-25]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 419

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78994

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

CONTRIBUTORY CAUSE OF DEATH

- Intestine Large;Colon Polyp Adenomatous;Liver Leukemia Mononuclear;Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 218

TRT#: 7

SEX: Male

DAY ON TEST: 608

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
[Osteopetrosis TGLS = 21-37]			
* Brain		Compression	Mild
[Compression TGLS = 20-1]			
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Clear Cell Focus TGLS = 13-6]			
[Eosinophilic Focus TGLS = 13-6]			
[Hepatodiaphragmatic Nodule TGLS = 14-31]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 22-2]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 11-8]			
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 218

TRT#: 7

SEX: Male

DAY ON TEST: 608

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80745

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Basal Cell Adenoma	
	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
Note: FIBROMA ALSO HAS TGLS 15-32 AND 18-35; COULD NOT ENTER BY ROUTINE METHOD.			
	[Basal Cell Adenoma TGLS = 17-34]		
	[Fibroma TGLS = 2-22,3-23,4-24,5-25,6-26,7-27,8-28,9-29,10-30]		
	[Lipoma TGLS = 16-33]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 12-7]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Skin Basal Cell Adenoma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 7

SEX: Male

DAY ON TEST: 432

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Moderate
	[Atrophy TGLS = 4-7]		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.		
* Pituitary Gl			
	Note: FOCUS OF PALE-STAINING, SLIGHTLY ENLARGED CELLS IN PARS DISTALIS; CONSIDERED NORMAL STRUCTURE.		
* Salivary Glands		Atrophy	Mild
Skel Muscle			
	Note: LESION ON SLIDE 22 APPEARS TO BE A FIBROMA WITHIN SKELETAL MUSCLE; MORPHOLOGY NOT AVAILABLE ON TDMS.		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 7

SEX: Male

DAY ON TEST: 432

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79031

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 7

SEX: Male

DAY ON TEST: 483

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Marked
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Pigmentation	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Eosinophilic Focus	
* Lymph Node, Mandibular		Pigmentation	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 7-24]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 5-8]			
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 2-22,3-23]			
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 7

SEX: Male

DAY ON TEST: 483

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79285

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Erosion

Minimal

* Testes

Germinal Epith

Atrophy

Mild

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 7

SEX: Male

DAY ON TEST: 544

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-80052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain		Developmental Malformation	
[Developmental Malformation TGLS = 14-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung		Leukemia Mononuclear	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 11-31]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 9-8]			
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25,8-28,13-29,15-30]			
[Fibrosarcoma TGLS = 6-26]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 221	TRT#: 7 DOSE: 2000 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 544 HISTO: 97-80052
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ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 7-27]			
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 16-4]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA IS ON SLIDE 31.			
[Atrophy TGLS = 10-7]			
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Fibrosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 7

SEX: Male

DAY ON TEST: 562

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla [Neuroblastoma TGLS = 4-23]		Neuroblastoma	
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Atrophy	Moderate
		Cyst	Moderate
	Centrilobular	Eosinophilic Focus	
		Necrosis	Mild
		Necrosis	Focal, Moderate
	Kupffer Cell	Pigmentation	Marked
Note: CENTRILOBULAR ATROPHY SECONDARY TO NECROSIS; NOT CODED ON TDMS. [Atrophy TGLS = 18-34] [Cyst TGLS = 17-34] [Eosinophilic Focus TGLS = 19-35] [Necrosis TGLS = 20-36] [Pigmentation TGLS = 17-34]			
* Mammary Gland		Hyperplasia	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7. [Mesothelioma Malignant TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 7

SEX: Male

DAY ON TEST: 562

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80161

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 15-1]			
* Preputial Gland		Atrophy	Marked
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
[Fibroma TGLS = 3-22,6-24,8-26,10-28,11-29,12-30,13-31,14-32]			
[Fibrosarcoma TGLS = 7-25,9-27]			
* Spleen		Hematopoietic Cell Proliferation	Marked
		Pigmentation	Mild
* Stomach, Glandular		Ulcer	Moderate
[Ulcer TGLS = 16-33]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Adrenal Medulla Neuroblastoma;Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 7

SEX: Male

DAY ON TEST: 471

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Atrophy	Marked
		Clear Cell Focus	
		Eosinophilic Focus	
		Hemorrhage	Marked
		Infiltration Cellular	Mixed Cell, Minimal
	Kupffer Cell	Pigmentation	Marked
[Atrophy TGLS = 4-24]			
[Hemorrhage TGLS = 4-24]			
[Pigmentation TGLS = 4-24]			
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 1-21,3-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 7

SEX: Male

DAY ON TEST: 471

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79245

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLS = 2-22]

* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 7

SEX: Male

DAY ON TEST: 495

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Rectum	* Lymph Node, Mesenteric
---------------------------	--------------------------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Necrosis	Focal, Marked
[Necrosis TGLS = 6-23]			
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 512

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	[Cataract TGLS = 1-21]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Accessory Spleen	
	[Accessory Spleen TGLS = 8-27]		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 2-22]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
	[Atrophy TGLS = 3-8]		
* Salivary Glands		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 512

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79631

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
	[Fibroma TGLS = 5-24,6-25,7-26]		
	[Lipoma TGLS = 4-23]		
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
Zymbal's Gland		Carcinoma	
	[Carcinoma TGLS = 9-9-2]		

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 9-6]			
[Clear Cell Focus TGLS = 9-6]			
[Eosinophilic Focus TGLS = 9-6]			
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 1-7]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 10-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
Note: LIPOMA CONTAINS EXTENSIVE FIBROMATOUS COMPONENT.			
[Fibroma TGLS = 2-21,4-23,5-24,6-25,7-26,11-27]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79985

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 3-22]

* Spleen Hematopoietic Cell Proliferation Mild

* Testes Interstit Cell Adenoma
Interstit Cell Hyperplasia Mild

[Adenoma TGLS = 8-7]

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 7

SEX: Male

DAY ON TEST: 463

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Epididymis
* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Diffuse, Mild
* Bone Marrow		Hyperplasia	Moderate
* Brain		Hydrocephalus	Mild
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	
	Centrilobular	Hepatodiaphragmatic Nodule	
		Necrosis	Moderate
	[Hepatocellular Adenoma TGLS = 15-31]		
	[Hepatodiaphragmatic Nodule TGLS = 16-32]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Atrophy	Moderate
	Mediastinal	Pigmentation	Moderate
	Note: PIGMENT IS MORE EVIDENT ON SLIDE 3 THAN ON SLIDE 33.		
	[Pigmentation TGLS = 17-33]		
* Lymph Node, Mandibular		Atrophy	Moderate
* Lymph Node, Mesenteric		Atrophy	Moderate
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 8-24]		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDES 4 AND 7.		
	[Mesothelioma Malignant TGLS = 3-22]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 7

SEX: Male

DAY ON TEST: 463

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79080

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 7-8]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,6-23,9-25,10-26,11-27,12-28,13-29,14-30]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Erosion	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 4-7]			
[Atrophy TGLS = 5-7]			
* Thymus			
Note: THYMUS IS PRESENT ON SLIDE 33.			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 7

SEX: Male

DAY ON TEST: 421

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Brain		Hydrocephalus Leukemia Mononuclear	Mild
	[Leukemia Mononuclear TGLS = 12-1]		
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma Leukemia Mononuclear Necrosis	Focal, Minimal
	[Hepatocellular Adenoma TGLS = 11-22]		
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Moderate
	[Leukemia Mononuclear TGLS = 7-2]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Peritoneum		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 3-7]		
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 7

SEX: Male

DAY ON TEST: 421

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78995

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Stomach, Forestomach [Ulcer TGLS = 5-4,13-23]	Epithelium	Hyperplasia Ulcer	Moderate Moderate
* Stomach, Glandular [Ulcer TGLS = 14-23]		Ulcer	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 531

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Atrophy	Moderate
		Basophilic Focus	
		Clear Cell Focus	
		Hemorrhage	Marked
		Necrosis	Focal, Marked
[Atrophy TGLS = 9-26]			
[Basophilic Focus TGLS = 8-6]			
[Clear Cell Focus TGLS = 8-6]			
[Hemorrhage TGLS = 10-27]			
[Necrosis TGLS = 9-26,10-27]			
* Lung	Alveolar Epith	Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 11-2]			
Lymph Node	Mediastinal	Pigmentation	Marked
[Pigmentation TGLS = 12-3]			
* Mammary Gl			
Note: MODERATE ANGIECTASIS AND FOCAL MINERALIZATION IN MAMMARY GLAND INTERSTITIUM ON SLIDE 23; NOT TABULATED.			
* Nose			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 531

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79915

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SUBMUCOSAL CYST; NOT TABULATED

Peritoneum

Mesothelioma Malignant

Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.

[Mesothelioma Malignant TGLS = 1-21]

* Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Minimal

* Preputial Gland

Atrophy

Mild

Inflammation

Chronic, Mild

[Atrophy TGLS = 4-8-1]

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

Multiple

Subcut Tiss

Fibrosarcoma

[Fibroma TGLS = 2-22,3-23,6-25]

[Fibrosarcoma TGLS = 5-24]

* Spleen

Hematopoietic Cell Proliferation

Mild

[Hematopoietic Cell Proliferation TGLS = 7-6]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 230

TRT#: 7

SEX: Male

DAY ON TEST: 567

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple

Note: EXTENSIVE ADIPOSE TISSUE SURROUNDING AND WITHIN THE FIBROMA ON SLIDE 31.

[Fibroma TGLS = 2-21,3-22,4-23,6-25,7-26,9-28,10-29,11-30,12-31]

[Fibrosarcoma TGLS = 5-24,8-27]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 231

TRT#: 7

SEX: Male

DAY ON TEST: 359

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---|-------------|------------------------|---------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Infiltration Cellular | Mixed Cell, Minimal |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Mediastinal | Pigmentation | Mild |
| [Hemorrhage TGLS = 1-21] | | | |
| [Pigmentation TGLS = 1-21] | | | |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Moderate |
| Peritoneum | | Mesothelioma Malignant | |
| Note: MESOTHELIO MAL (SLIDE 7) APPEARS TO BE IN AN EARLY STAGE. | | | |
| * Salivary Glands | | Atrophy | Mild |
| * Spleen | | Pigmentation | Mild |
| Zymbal's Gland | | Carcinoma | |
| [Carcinoma TGLS = 2-22] | | | |

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 232

TRT#: 7

SEX: Male

DAY ON TEST: 391

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Mild
Note: ACC ADR COR ND IN ON SLIDE 24.			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 4-8]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,3-23]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Minimal Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 7

SEX: Male

DAY ON TEST: 509

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Eosinophilic Focus	
		Hepatocholangiocarcinoma	
		Hepatodiaphragmatic Nodule	
		[Hepatocholangiocarcinoma TGLS = 3-2]	
		[Hepatodiaphragmatic Nodule TGLS = 2-6]	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		[Hyperplasia TGLS = 6-2-1]	
* Preputial Gland		Atrophy	Marked
		[Atrophy TGLS = 4-8]	
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 1-21]	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 7

SEX: Male

DAY ON TEST: 509

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79614

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-7]

PRIMARY CAUSE OF DEATH

- Liver Hepatocholangiocarcinoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 7

SEX: Male

DAY ON TEST: 509

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

* Preputial Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Peritoneum	Mesothelium	Hyperplasia	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	[Fibroma TGLS = 3-22,4-23,5-24]		
	[Fibrosarcoma TGLS = 2-21]		
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 7

SEX: Male

DAY ON TEST: 509

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79615

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1-7]

[Atrophy TGLS = 7-7]

* Thyroid Gland

Ultimobranchial Cyst

Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 7

SEX: Male

DAY ON TEST: 509

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 9-28]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 1-21]			
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 7-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 2-23,4-25,5-26,6-27]			
[Fibrosarcoma TGLS = 3-24]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 7

SEX: Male

DAY ON TEST: 509

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79616

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 8-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 7

SEX: Male

DAY ON TEST: 512

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
Peritoneum		Mesothelioma Malignant	
Note: MESTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 1-21]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 4-23,5-24]			
[Fibrosarcoma TGLS = 3-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 237

TRT#: 7

SEX: Male

DAY ON TEST: 512

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lymph Node, Mandibular		Hemorrhage	Mild
		Pigmentation	Moderate
Oral Mucosa		Hemangioma	
[Hemangioma TGLS = 7-26]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 2-21,3-22,4-23,5-24,6-25]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Oral Mucosa Hemangioma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 238

TRT#: 7

SEX: Male

DAY ON TEST: 637

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Preputial Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 7-6]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands		Atrophy	Mild
* Skin		Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
[Fibroma TGLS = 1-21,2-22]	Subcut Tiss		
[Fibrosarcoma TGLS = 3,4-23+24]			
* Testes		Adenoma	
[Adenoma TGLS = 6-7]	Bilateral, Interstit Cell		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 7

SEX: Male

DAY ON TEST: 512

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Diffuse, Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 8-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 1-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
[Fibroma TGLS = 2-21,3-22,4-23,10-26]			
[Fibrosarcoma TGLS = 5-24,6-25]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 9-6]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	Interstitial Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 7

SEX: Male

DAY ON TEST: 512

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79619

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-7]

* Thyroid Gland

Follicular Cel

Carcinoma

Note: CARCINOMA IS IN AREA OF ISTHMUS.

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Pituitary Gland Pars Distalis Adenoma;Skin Subcut Tiss Fibroma;Thyroid Gland Follicular Cel Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 7

SEX: Male

DAY ON TEST: 655

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-81793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Urinary Bladder
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Mild
Note: EOSINOPHILIC FOCI ALSO ON SLIDE 6.			
		[Eosinophilic Focus TGLS = 7-26]	
		[Hepatocellular Adenoma TGLS = 8-27]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 11-1]	
* Preputial Gland		Atrophy	Moderate
		[Atrophy TGLS = 1-8]	
* Prostate		Inflammation	Chronic, Marked
* Skin	Subcut Tiss	Fibroma	Multiple
		[Fibroma TGLS = 2-21,3-22,4-23,5-24,9-28,10-29]	
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 7

SEX: Male

DAY ON TEST: 655

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-81793

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Erosion

Moderate

* Testes

Germinal Epith

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 241

TRT#: 7

SEX: Male

DAY ON TEST: 483

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 1-21]			
[Fibrosarcoma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 7

SEX: Male

DAY ON TEST: 471

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Osteosarcoma	
Note: OSTEOSARCOMA CONSIDERED TO BE "COMPOUND" TYPE (CONTAINS CARTILAGE AND FIBROMATOUS TISSUE ALONG WITH OSTEOID).			
[Osteosarcoma TGLS = 1-21]			
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Adenoma	
		Atrophy	Mild
[Adenoma TGLS = 5-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 6-7]			

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma
 CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 7

SEX: Male

DAY ON TEST: 538

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-79986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Hepatocellular Adenoma TGLS = 11-28]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	Peritoneum	Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 7-27]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 2-22,3-23,5-25,6-26,12-29]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 7

SEX: Male

DAY ON TEST: 538

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-79986

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLS = 1-21,4-24]

* Stomach, Glandular

Ulcer

Moderate

[Ulcer TGLS = 9-4]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 10-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma;Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 244

TRT#: 7

SEX: Male

DAY ON TEST: 439

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 1-21,2-22,4-23]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	[Adenoma TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 245

TRT#: 7

SEX: Male

DAY ON TEST: 576

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
Note: SEROSAL SURFACE IS THICKENED WITH INCREASED CONNECTIVE TISSUE CONTAINING OCCASSIONAL CHOLESTEROL CLEFTS.			
* Kidney		Nephropathy	Minimal
Lymph Node	Mediastinal	Pigmentation	Moderate
[Pigmentation TGLS = 5-27]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 2-8]			
* Prostate		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
Note: FIBROMA IS ALSO PRESENT ON SLIDE 8-1.			
[Fibroma TGLS = 7-22,8-23,9-24,10-25,11-26]			
[Lipoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 245

TRT#: 7

SEX: Male

DAY ON TEST: 576

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80455

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 7

SEX: Male

DAY ON TEST: 527

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Carcinoma	Multiple
	[Clear Cell Focus TGLS = 7-6]		
	[Hepatocellular Carcinoma TGLS = 8-26,9-27]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland			
	Note: MAMMARY GL IS ON SLIDE 8-1.		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS PRESENT ON SLIDE 7.		
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	[Fibroma TGLS = 1-21,3-23,4-24,5-25]		
	[Fibrosarcoma TGLS = 2-22]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 246

TRT#: 7

SEX: Male

DAY ON TEST: 527

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79924

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-7]

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 247

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLS = 9-28]		
	[Mixed Cell Focus TGLS = 13-6]		
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 11-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Note: THE FIBROMA ON SLIDE 23 CONTAINS EXTENSIVE ADIPOSE TISSUE.		
	[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25,6-26,7-27]		
* Spleen		Fibrosis	Moderate
		Pigmentation	Mild
	[Fibrosis TGLS = 12-6]		
	[Pigmentation TGLS = 12-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 247

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80456

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 8-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 7

SEX: Male

DAY ON TEST: 581

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Bone [Osteopetrosis TGLS = 13-31]	Cranium	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus	
Note: TGL 10-29 IS A DEVELOPMENTAL MALFORMATION; MORPHOLOGY NOT AVAILABLE FOR TABULATION.			
Lymph Node [Hyperplasia TGLS = 11-30]	Iliac	Hyperplasia	Lymphoid, Marked
* Pituitary Gland [Adenoma TGLS = 14-1]	Pars Distalis	Adenoma	
* Preputial Gland		Atrophy	Moderate
		Carcinoma	
		Inflammation	Chronic, Mild
		[Carcinoma TGLS = 7-27]	
* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
	[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 248	TRT#: 7	SEX: Male	DAY ON TEST: 581
	DOSE: 2000 PPM	DISP: Moribund Sacrifice	HISTO: 97-80457

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 6-26]			
* Spleen		Fibrosis Hematopoietic Cell Proliferation	Moderate Minimal
[Fibrosis TGLS = 8-28]			
* Testes	Germinal Epith Interstit Cell	Angiectasis Atrophy Hyperplasia	Moderate Moderate Minimal
[Angiectasis TGLS = 12-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Fibrosis	Marked

PRIMARY CAUSE OF DEATH	- Preputial Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 7

SEX: Male

DAY ON TEST: 474

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-79247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adren Cortex			
Note: ADRENAL CORTEX IS ON SLIDE 7.			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 3-22]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Stomach, Glandular		Erosion	Moderate
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 7

SEX: Male

DAY ON TEST: 474

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-79247

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 250

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-78968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
Peritoneum	Mesothelium	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
	[Fibroma TGLS = 1-21]		
	[Lipoma TGLS = 2-22]		
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 491

TRT#: 9

SEX: Male

DAY ON TEST: 673

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 98-81875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Salivary Glands	* Seminal Vesicle
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Atypia Cellular	Mild
* Kidney		Mineralization	Moderate
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 7-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
	Peritoneum	Mesothelioma Malignant	
	Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	[Hyperplasia TGLS = 6-1]		
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
	[Fibroma TGLS = 2-22]		
	[Lipoma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 491	TRT#: 9	SEX: Male	DAY ON TEST: 673
	DOSE: 2000 PPM(STOP)	DISP: Natural Death	HISTO: 98-81875

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Mild
[Fibrosis TGLS = 8-23]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular		Perforation	
		Ulcer	Mild
[Perforation TGLS = 5-4]			
[Ulcer TGLS = 9-4]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH	- Stomach, Glandular Perforation
CONTRIBUTORY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 492

TRT#: 9

SEX: Male

DAY ON TEST: 702

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 5-24]			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 1-8]			
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 3-22,6-23]			
[Fibrosarcoma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 492

TRT#: 9

SEX: Male

DAY ON TEST: 702

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82337

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 493

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
Lacrimal Gland		Cyst	Moderate
[Cyst TGLS = 3-23]			
* Liver		Clear Cell Focus	
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS PRESENT ON SLIDE 7.			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Ventral	Adenoma	
	Ventral	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,5-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 494

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|----------------|-----------------|----------|
| * Epididymis | | Atypia Cellular | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Salivary Glands | | Atrophy | Moderate |
| * Testes | Germinal Epith | Atrophy | Minimal |
| * Thymus | | Hemorrhage | Mild |

[Hemorrhage TGLS = 2-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 495

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Kidney	Nephropathy	Minimal
* Salivary Glands	Atrophy	Moderate
* Spleen	Congestion	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 496

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Degeneration	Mild
* Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 1-8]			
* Salivary Glands		Atrophy	Moderate
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 497

TRT#: 9

SEX: Male

DAY ON TEST: 615

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
Note: MODERATE HISTIOCYTIC CELL INFILTRATION; NOT TABULATED.			
* Epididymis		Atypia Cellular	Mild
* Heart			
Note: MODERATE FOCAL ANITSCHKOW CELL PROLIFERATION IN MYOCARDIUM; NOT TABULATED.			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 8-6]			
[Clear Cell Focus TGLS = 8-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 10-2]			
Lymph Node	Mediastinal	Pigmentation	Marked
[Pigmentation TGLS = 9-3]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 497

TRT#: 9

SEX: Male

DAY ON TEST: 615

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81056

ORGAN AND ACCOUNTABLE SITE STATUS

Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7. [Mesothelioma Malignant TGLS = 7-23]			
* Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 4-8]			
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 2-21]			
[Lipoma TGLS = 3-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 498

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
Note: MODERATE ANGIECTASIS; NOT TABULATED.			
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 9-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 10-6]			
[Clear Cell Focus TGLS = 10-6]			
[Eosinophilic Focus TGLS = 10-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 11-2]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21,2-23,13-30]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 7-27]			
* Preputial Gland		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 498

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82230

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Atrophy	Mild
	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 4-25,5-26,12-29]	Lipoma	
	[Lipoma TGLS = 3-24,14-31]		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
		Pigmentation	Moderate
	[Fibrosis TGLS = 8-28]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 499

TRT#: 9

SEX: Male

DAY ON TEST: 677

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-81876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus Fibrosis	Moderate
	Bile Duct	Hyperplasia Leukemia Mononuclear Mixed Cell Focus	Minimal
Note: MIXED CL FOCUS IS ON SLIDES 6 AND 29.			
Note: BASOPH FOCUS IS ON SLIDE 29.			
[Eosinophilic Focus TGLS = 10-29]			
[Fibrosis TGLS = 9-28]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 7-26]			
* Pituitary Gl			
Note: PITUITARY GLAND IS ON SLIDE 5.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 499

TRT#: 9

SEX: Male

DAY ON TEST: 677

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-81876

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
		Fibrosarcoma	Metastatic (Skin)
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	
Note: FIBROSARC IS ON SLIDE 8. [Fibroma TGLS = 1-21,2-22,5-25] [Lipoma TGLS = 3-23,4-24]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 8-27]			
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 12-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 500

TRT#: 9

SEX: Male

DAY ON TEST: 579

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-80458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Leukemia Mononuclear	
	Note: MILD FOREIGN BODY IN LUNG (ASPIRATED MATERIAL); NOT TABULATED.		
	[Leukemia Mononuclear TGLS = 8-2]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
Peritoneum		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 5-24,10-7]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	
	[Fibroma TGLS = 1-21,2-22,3-23]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 500

TRT#: 9

SEX: Male

DAY ON TEST: 579

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-80458

ORGAN AND ACCOUNTABLE SITE STATUS

[Keratoacanthoma TGLS = 9-25]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 501

TRT#: 9

SEX: Male

DAY ON TEST: 499

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Salivary Glands
--------------------------	-------------------

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Minimal
* Liver		Hemorrhage	Moderate
		Mixed Cell Focus	
Note: MODERATE PROLIFERATION OF CELLS RESEMBLING OVAL CELLS; NOT TABULATED ON TDMS.			
[Hemorrhage TGLS = 3-6]			
* Lung		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-2]			
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[Ectasia TGLS = 5-21]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 6-8]			
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 501

TRT#: 9

SEX: Male

DAY ON TEST: 499

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79480

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Lung Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 502

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 3-6]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Moderate
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL APPEARS TO BE IN AN EARLY STAGE (SLIDE 7).			
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Moderate
	[Fibrosis TGLS = 1-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 503

TRT#: 9

SEX: Male

DAY ON TEST: 576

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Brain		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 6-23]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:58:59
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 503

TRT#: 9

SEX: Male

DAY ON TEST: 576

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80459

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-7]

[Atrophy TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 504

TRT#: 9

SEX: Male

DAY ON TEST: 621

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Salivary Glands

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
	[Pigmentation TGLS = 7-5]		
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Moderate
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 6-25]		
* Preputial Gland		Atrophy	Minimal
* Prostate	Ventral	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Schwannoma Malignant	
	[Fibroma TGLS = 1-21,2-22,4-24]		
	[Schwannoma Malignant TGLS = 3-23]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 5-7]		
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 504

TRT#: 9

SEX: Male

DAY ON TEST: 621

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81057

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 505

TRT#: 9

SEX: Male

DAY ON TEST: 621

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 4-23]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,2-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 506

TRT#: 9

SEX: Male

DAY ON TEST: 420

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	Peripheral Nerve	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Mild
* Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
	Centrilobular	Necrosis	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Foreign Body	
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked
	[Inflammation TGLS = 6-21]		
Spinal Cord		Cyst Epithelial Inclusion	
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes		Hemorrhage	Mild
	[Hemorrhage TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 506

TRT#: 9

SEX: Male

DAY ON TEST: 420

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78996

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Spinal Cord Cyst Epithelial Inclusion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 507

TRT#: 9

SEX: Male

DAY ON TEST: 589

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Int Lg Rectum			
Note: RECTUM IS ON SLIDE 3.			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 8-5]			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 9-25]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Marked
[Hemorrhage TGLS = 11-28]			
[Pigmentation TGLS = 11-28]			
* Lymph Node, Mandibular		Hemorrhage	Moderate
		Pigmentation	Moderate
* Nose		Foreign Body	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 507

TRT#: 9

SEX: Male

DAY ON TEST: 589

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80460

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith	Hyperplasia	Mild
	Inflammation	Chronic, Minimal
Peritoneum	Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7. [Mesothelioma Malignant TGLS = 6-24,10-26]		
* Preputial Gland	Inflammation	Chronic, Mild
* Skin	Fibroma	
	Lipoma	
[Fibroma TGLS = 1-21,2-22] [Lipoma TGLS = 3-23]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 7-6]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 5-7]		
* Urin Bladder		
Note: LOCALIZED AREA OF MINIMAL FIBROSIS IN URINARY BLADDER SUBMUCOSA; NOT TABULATED.		

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 508

TRT#: 9

SEX: Male

DAY ON TEST: 579

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLS = 5-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 1-21]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Fibrosarcoma	
		Hematopoietic Cell Proliferation	Minimal
	[Fibrosarcoma TGLS = 3-22]		
* Thymus		Fibrosarcoma	Metastatic (Spleen)
* Thyroid Gland		Ultimobranchial Cyst	Moderate
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 508

TRT#: 9

SEX: Male

DAY ON TEST: 579

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80461

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 6-24]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma;Peritoneum Mesothelioma Malignant;Spleen Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 509

TRT#: 9

SEX: Male

DAY ON TEST: 658

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	Marked
		Hydrocephalus	Moderate
[Compression TGLS = 5-1]			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Leukemia Mononuclear	
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Marked
[Dilatation TGLS = 1-21,2-8]			
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Atrophy	Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 509

TRT#: 9

SEX: Male

DAY ON TEST: 658

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81796

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 510

TRT#: 9

SEX: Male

DAY ON TEST: 579

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* 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
* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Nephropathy	Minimal
	[Pigmentation TGLS = 7-5]	Pigmentation	Marked
* Liver		Clear Cell Focus	
	[Clear Cell Focus TGLS = 8-6]	Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Mediastinal	Pigmentation	Marked
	[Pigmentation TGLS = 10-23]		
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDES 4, 5, 6, AND 7.			
	[Mesothelioma Malignant TGLS = 3-21,4-22]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Atrophy	Mild
	[Atrophy TGLS = 1-8]		
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Mild
	[Adenoma TGLS = 6-7]		
	[Atrophy TGLS = 5-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 510

TRT#: 9

SEX: Male

DAY ON TEST: 579

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80462

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 511

TRT#: 9

SEX: Male

DAY ON TEST: 470

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-79248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	Lymph Node
* 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

* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum
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OBSERVATIONS

* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 1-21]			
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Necrosis	Moderate
[Necrosis TGLS = 3-6]			
Lymph Node			
Note: TGL 6 IS A BLOOD CLOT, PROBABLY WITHIN PRECAVA.			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Erosion	Moderate
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 512

TRT#: 9

SEX: Male

DAY ON TEST: 656

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Atypia Cellular	Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
[Leukemia Mononuclear TGLS = 5-5]			
* Liver		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 9-6]			
[Hyperplasia TGLS = 7-6]			
[Leukemia Mononuclear TGLS = 7-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Infiltration Cellular TGLS = 14-2]			
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: EXTENSIVE FIBROSIS AND PIGMENTATION ASSOCIATED WITH PANCREATIC LYMPH NODE LEUKEMIA MONUC.			
[Leukemia Mononuclear TGLS = 12-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 512

TRT#: 9

SEX: Male

DAY ON TEST: 656

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81797

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 13-25]

[Leukemia Mononuclear TGLS = 11-24]

[Leukemia Mononuclear TGLS = 3-7]

[Leukemia Mononuclear TGLS = 15-26]

* Lymph Node, Mandibular

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 16-8]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-5,10-23]

* Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-21]

* Pancreas Acinus

Hyperplasia

Focal, Mild

Note: ACINAR HYPERPLASIA IS ON SLIDE 4.

Peritoneum

Mesothelioma Malignant

* Preputial Gland

Atrophy

Mild

Inflammation

Chronic, Moderate

* Prostate

Inflammation

Chronic, Moderate

Leukemia Mononuclear

* Salivary Glands

Atrophy

Mild

* Seminal Vesicle

Leukemia Mononuclear

* Skin Subcut Tiss

Fibroma

[Fibroma TGLS = 2-22,17-27]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6]

* Testes Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 8-7-1]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 513

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Edema	Moderate
[Edema TGLS = 14-4]			
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 13-6]			
[Infiltration Cellular TGLS = 13-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 12-5]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 19-29]			
* Pancreas		Atrophy	Moderate
[Atrophy TGLS = 10-7]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
[Angiectasis TGLS = 17-1]			
* Preputial Gland		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 513

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82258

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21,2-22,3-23,4-24,5-25,6-26,7-27,16-28]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Stomach, Glandular		Edema	Moderate
		Erosion	Minimal
	[Erosion TGLS = 18-4-1]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
	[Adenoma TGLS = 9-7]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 514

TRT#: 9

SEX: Male

DAY ON TEST: 555

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-22]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Germinal Epith	Atrophy	Mild
		Hemorrhage	Mild
	Interstitial Cell	Hyperplasia	Minimal
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 515

TRT#: 9

SEX: Male

DAY ON TEST: 523

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fibrosis	Mild
		Mixed Cell Focus	
Note: MIXED CL FOCUS IS ON SLIDE 23. [Fibrosis TGLS = 5-23]			
* Mammary Gland		Fibroadenoma	
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin	Subcut Tiss	Lipoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 516

TRT#: 9

SEX: Male

DAY ON TEST: 569

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Blood Vessel | * 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, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|----------------|-------------------------|-----------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| [Pheochromocytoma Benign TGLS = 3-22] | | | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Leukemia Mononuclear | |
| * Salivary Glands | | Atrophy | Mild |
| | | Fibrosarcoma | |
| [Fibrosarcoma TGLS = 6-24] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 2-21] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| | Interstit Cell | Hyperplasia | Mild |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| Zymbal's Gland | | Carcinoma | |
| [Carcinoma TGLS = 5-23] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 516

TRT#: 9

SEX: Male

DAY ON TEST: 569

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80207

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Benign;Salivary Glands Fibrosarcoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 517

TRT#: 9

SEX: Male

DAY ON TEST: 569

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-21]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node		Squamous Cell Carcinoma	Metastatic (Skin)
[Squamous Cell Carcinoma TGLS = 2-22]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 3-23]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 5-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 517

TRT#: 9

SEX: Male

DAY ON TEST: 569

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80208

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Squamous Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 518

TRT#: 9

SEX: Male

DAY ON TEST: 537

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-79987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone | * Brain |
| * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

AUTO PRECLUDES DIAG.

- * Intestine Small, Ileum

OBSERVATIONS

- | | | | |
|---|-------------|-----------------------------------|-------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Moderate |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Epididymis | | Atypia Cellular | Moderate |
| * Heart | | Cardiomyopathy | Moderate |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Pancreas | | Atrophy | Minimal |
| Peritoneum | | Mesothelioma Malignant | |
| Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7. | | | |
| [Mesothelioma Malignant TGLS = 2-23] | | | |
| * Preputial Gland | | Inflammation | Chronic, Moderate |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Fibrosis | Moderate |
| [Fibrosis TGLS = 3-22] | | | |
| | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 518

TRT#: 9

SEX: Male

DAY ON TEST: 537

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-79987

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 519

TRT#: 9

SEX: Male

DAY ON TEST: 708

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
[Mixed Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-23]			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 519

TRT#: 9

SEX: Male

DAY ON TEST: 708

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82338

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21]

[Lipoma TGLS = 2-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 520

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 10-6]		
	[Clear Cell Focus TGLS = 10-6]		
	[Degeneration TGLS = 10-6]		
	[Eosinophilic Focus TGLS = 10-6]		
	[Hepatodiaphragmatic Nodule TGLS = 9-27]		
	[Mixed Cell Focus TGLS = 10-6]		
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]		
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 520

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82232

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 2-23]

* Pituitary Gland

Pars Distalis

Adenoma

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Ventral

Hyperplasia

Marked

Skeletal Muscle

Inflammation

Chronic, Minimal

Mesothelioma Malignant

Metastatic (Peritoneum)

[Mesothelioma Malignant TGLS = 8-26]

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 6-25,12-28,5-29]

* Spleen

Fibrosis

Moderate

Hematopoietic Cell Proliferation

Mild

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 3-7]

[Atrophy TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:58:59

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 521

TRT#: 9

SEX: Male

DAY ON TEST: 567

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-80209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Prostate	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatodiaphragmatic Nodule	
	Centrilobular	Necrosis	Moderate
	[Hepatodiaphragmatic Nodule TGLS = 8-23]		
* Lung	Alveolar Epith	Hyperplasia	Mild
Lymph Node	Mediastinal	Pigmentation	Marked
	[Pigmentation TGLS = 10-25]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
* Parathyroid Gland		Adenoma	
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 4-6,5-21,7-22,9-24,12-4]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 521

TRT#: 9

SEX: Male

DAY ON TEST: 567

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-80209

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 11-26]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Stomach, Forestomach

Edema

Moderate

* Testes

Germinal Epith

Atrophy

Marked

[Atrophy TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 522

TRT#: 9

SEX: Male

DAY ON TEST: 589

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Thrombosis	Mild
Note: HEART THROMBOSIS IS ACTUALLY PRESENT ON SLIDE 3. MODERATE CHRONIC INFLAMMATION PRESENT WITHIN ATRIUM ASSOCIATED WITH THROMBOSIS; NOT CODED ON TDMS. [Thrombosis TGLS = 8-5]			
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS MORE APPARENT ON SLIDE 7 THAN ON SLIDE 23. [Mesothelioma Malignant TGLS = 7-23]			
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 4-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21,3-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant
 CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 523

TRT#: 9

SEX: Male

DAY ON TEST: 684

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 98-81877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-5]			
* Liver		Eosinophilic Focus	
Peritoneum	Mesothelium	Hyperplasia	Minimal
* Preputial Gland		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Stomach, Glandular		Erosion	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 524

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 1-21]			
[Pigmentation TGLS = 1-21]			
* Salivary Glands		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 525

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Bone Marrow
* Heart
* Intestine Small, Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Skin
* Testes
* Urinary Bladder

* Adrenal Medulla
* Brain
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lung
* Nose
* Preputial Gland
* Spleen
* Thymus

* Blood Vessel
* Epididymis
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Pancreas
* Prostate
* Stomach, Forestomach
* Thyroid Gland

* Bone
* Esophagus
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Parathyroid Gland
* Seminal Vesicle
* Stomach, Glandular
* Trachea

OBSERVATIONS

* Kidney
* Salivary Glands

Nephropathy
Atrophy

Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 526

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Salivary Glands	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 527

TRT#: 9

SEX: Male

DAY ON TEST: 534

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 2-21]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 527

TRT#: 9

SEX: Male

DAY ON TEST: 534

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79988

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 528

TRT#: 9

SEX: Male

DAY ON TEST: 592

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-80464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Thrombosis	Moderate
Note: THROMBOSIS IS PRESENT ON SLIDE 3.			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 8-5]			
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
	Centrilobular	Necrosis	Mild
[Necrosis TGLS = 9-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Marked
[Pigmentation TGLS = 10-25]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 4-23,7-24]			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Preputial Gland		Atrophy	Mild
		Cyst	Moderate
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:00
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 528	TRT#: 9	SEX: Male	DAY ON TEST: 592
	DOSE: 2000 PPM(STOP)	DISP: Natural Death	HISTO: 97-80464

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 6-7]			
[Atrophy TGLS = 5-7]			

PRIMARY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Fibroadenoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 529

TRT#: 9

SEX: Male

DAY ON TEST: 419

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* 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
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 530

TRT#: 9

SEX: Male

DAY ON TEST: 523

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 1-21]			
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Angiectasis	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
[Angiectasis TGLS = 5-6]	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 530

TRT#: 9

SEX: Male

DAY ON TEST: 523

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79930

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Cyst

Moderate

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 531

TRT#: 9

SEX: Male

DAY ON TEST: 603

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-7]			
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant
 CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 532

TRT#: 9

SEX: Male

DAY ON TEST: 670

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-81878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	Peripheral Nerve
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 7-5]			
* Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	Centrilobular	Necrosis	Minimal
[Degeneration TGLS = 11-6]			
[Eosinophilic Focus TGLS = 11-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 13-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 532

TRT#: 9

SEX: Male

DAY ON TEST: 670

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-81878

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node [Pigmentation TGLS = 5-3]	Mediastinal	Pigmentation	Marked
* Nose	Respirat Epith	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Pancreas [Mixed Tumor Benign TGLS = 12-25]		Mixed Tumor Benign	
Peritoneum Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDES 5 AND 7. [Mesothelioma Malignant TGLS = 9-23,10-24]		Mesothelioma Malignant	
* Pituitary Gland [Adenoma TGLS = 4-1]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Skin [Fibroma TGLS = 2-22] [Fibrosarcoma TGLS = 1-21]	Subcut Tiss Subcut Tiss	Fibroma Fibrosarcoma	
* Spleen [Hematopoietic Cell Proliferation TGLS = 6-6]		Hematopoietic Cell Proliferation	Moderate
* Testes [Adenoma TGLS = 8-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 533

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Minimal
* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 534

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 1-21]		
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 535

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Salivary Glands		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 536

TRT#: 9

SEX: Male

DAY ON TEST: 275

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 2-6]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 537

TRT#: 9

SEX: Male

DAY ON TEST: 658

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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	* 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
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Bone Marrow		Hyperplasia	Marked
* Brain		Compression	Mild
[Compression TGLS = 7-1]			
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 11-2]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 3-22,5-24]			
* Nose		Foreign Body	
		Inflammation	Chronic, Mild

Note: LOCALIZED MILD HYPERPLASIA OF OLFACTORY EPITHELIUM; NOT TABULATED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 537

TRT#: 9

SEX: Male

DAY ON TEST: 658

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81798

ORGAN AND ACCOUNTABLE SITE STATUS

Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 2-21]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 4-23]			
* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 8-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Preputial Gland Carcinoma		
CONTRIBUTORY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant; Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 538

TRT#: 9

SEX: Male

DAY ON TEST: 685

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-81879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 6-6]			
[Mixed Cell Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Preputial Gland		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,2-22,3-23,4-24,8-25,9-26]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 539

TRT#: 9

SEX: Male

DAY ON TEST: 710

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 98-82339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
	Centrilobular	Necrosis	Moderate
	[Necrosis TGLS = 6-6]		
Lymph Node	Mediastinal	Pigmentation	Moderate
	[Pigmentation TGLS = 9-3]		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIOMA MAL IS ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 5-23,7-24,8-25]		
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Prostate	Ventral	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21,2-22]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 539

TRT#: 9

SEX: Male

DAY ON TEST: 710

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 98-82339

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 540

TRT#: 9

SEX: Male

DAY ON TEST: 658

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Leiomyoma	
[Leiomyoma TGLS = 5-25]			
* Intestine Small, Jejunum		Carcinoma	
Note: CARCINOMA CONTAINS EXCESSIVE MUCUS AND OSSEOUS METAPLASIA.			
[Carcinoma TGLS = 3-23]			
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 7-6]		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mandibular		Ectasia	Mild
Oral Mucosa			
Note: FOREIGN BODY (HAIR SHAFT) AND MODERATE SUPPURATIVE INFLAMMATION IN ORAL MUCOSA ON SLIDE 9-1; NOT TABULATED.			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Minimal
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:00
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 540	TRT#: 9	SEX: Male	DAY ON TEST: 658
	DOSE: 2000 PPM(STOP)	DISP: Moribund Sacrifice	HISTO: 97-81799

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 8-26] [Fibrosarcoma TGLS = 1-21] * Spleen	Subcut Tiss	Fibrosarcoma	
[Fibrosis TGLS = 2-22] * Stomach, Forestomach	Epithelium	Fibrosis Hematopoietic Cell Proliferation Leukemia Mononuclear	Moderate Minimal
* Testes [Adenoma TGLS = 6-7-1]	Bilateral, Interstit Cell	Hyperplasia Ulcer Adenoma	Moderate Moderate

PRIMARY CAUSE OF DEATH	- Intestine Small, Jejunum Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Intestine Large;Cecum Leiomyoma;Skin Subcut Tiss Fibrosarcoma;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 541

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 8-26]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 9-5]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Hepatocellular Adenoma	
[Basophilic Focus TGLS = 12-6]			
* Lung		Congestion	Mild
[Congestion TGLS = 15-2]			
Lymph Node	Mediastinal	Pigmentation	Moderate
[Pigmentation TGLS = 13-3]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-23,6-25]			
* Preputial Gland		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:00
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 541	TRT#: 9	SEX: Male	DAY ON TEST: 729
	DOSE: 2000 PPM(STOP)	DISP: Terminal Sacrifice	HISTO: 98-82233

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Atrophy	Moderate
[Fibroma TGLS = 1-21]		Fibroma	
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 10-27]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 542

TRT#: 9

SEX: Male

DAY ON TEST: 370

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Pigmentation	Marked
	[Hemorrhage TGLS = 3-22]		
	[Pigmentation TGLS = 3-22]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Foreign Body	
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL (SLIDE 7) IS IN EARLY STAGE.		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 543

TRT#: 9

SEX: Male

DAY ON TEST: 637

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Pancreas	* Parathyroid Gland	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 6-6]			
[Clear Cell Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland		Craniopharyngioma	
	Pars Intermed	Cyst	Moderate
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 3-8]			
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 543

TRT#: 9

SEX: Male

DAY ON TEST: 637

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81112

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith

Atrophy

Marked

Interstit Cell

Hyperplasia

Mild

[Adenoma TGLS = 5-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 544

TRT#: 9

SEX: Male

DAY ON TEST: 569

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 3-22]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 1-8]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 544

TRT#: 9

SEX: Male

DAY ON TEST: 569

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80210

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 545

TRT#: 9

SEX: Male

DAY ON TEST: 595

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-80502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Focal, Minimal
Note: EOSINOPHILIC FOCI ALSO ON SLIDE 6.			
[Eosinophilic Focus TGLS = 7-25]			
[Hepatodiaphragmatic Nodule TGLS = 6-24]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 5-23]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
[Angiectasis TGLS = 11-1]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 545

TRT#: 9

SEX: Male

DAY ON TEST: 595

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-80502

ORGAN AND ACCOUNTABLE SITE STATUS

Skeletal Muscle [Mesothelioma Malignant TGLS = 12-29]		Mesothelioma Malignant	Metastatic (Peritoneum)
* Skin [Fibroma TGLS = 1-21,2-22,8-26,9-27,10-28]	Subcut Tiss	Fibroma	
* Testes [Adenoma TGLS = 3-7] [Atrophy TGLS = 4-7]	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 546

TRT#: 9

SEX: Male

DAY ON TEST: 531

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 5-6]			
* Mammary GI			
Note: NO CORRELATING LESION FOR TGLS 4-8			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7-1.			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,3-22]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 7-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 546

TRT#: 9

SEX: Male

DAY ON TEST: 531

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79931

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Cyst	Moderate
* Thyroid Gland [Adenoma TGLS = 6-3]	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 547

TRT#: 9

SEX: Male

DAY ON TEST: 260

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 96-77430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
Lymph Node			
Note: ILIAC LYMPH NODE CONTAINS BLACK PIGMENT, PRESUMABLY FROM TAIL TATTOO; NO SIGNIFICANT LESION.			
* Skin	Subcut Tiss	Osteosarcoma	
	[Osteosarcoma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 2-6]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 548

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 9-10]			
* Brain		Hydrocephalus	Mild
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus Clear Cell Focus Hepatodiaphragmatic Nodule Leukemia Mononuclear Mesothelioma Malignant	Metastatic (Peritoneum)
Note: BASOPHILIC FOCUS IS ON SLIDE 27.			
[Hepatodiaphragmatic Nodule TGLS = 12-27]			
* Lung		Hemorrhage Hyperplasia	Minimal Mild
	Alveolar Epith		
Note: TGL 13-2 INCLUDES MILD MIXED INFLAMMATORY CELL INFILTRATE; NOT TABULATED.			
[Hemorrhage TGLS = 13-2]			
[Hyperplasia TGLS = 13-2]			
Lymph Node	Mediastinal	Pigmentation	Marked
[Pigmentation TGLS = 14-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 548

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82234

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland			
Note: MAMMARY GLAND IS PRESENT ON SLIDE 22.			
* Pancreas		Mesothelioma Malignant	Metastatic (Peritoneum)
[Mesothelioma Malignant TGLS = 8-7]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7-1.			
[Mesothelioma Malignant TGLS = 7-25,10-26]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
Skeletal Muscle		Mesothelioma Malignant	Metastatic (Peritoneum)
[Mesothelioma Malignant TGLS = 3-23,4-24]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Fibrosis	Moderate
Leukemia Mononuclear			
Note: FIBROSIS IS IN SPLEEN SECTION ON SLIDE 25 ALONG WITH PERITONEAL MESOTHELIO MAL.			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 549

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
[Eosinophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Mixed Tumor Benign	
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,2-22,6-23,8-24]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 549

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82340

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 7-7]

* Urinary Bladder

Leiomyoma

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 550

TRT#: 9

SEX: Male

DAY ON TEST: 502

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
[Angiectasis TGLS = 4-23]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 1-21]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 2-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-22]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 551

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
Note: MINIMAL TUBULAR HYPERPLASIA; NOT TABULATED.			
* Liver		Basophilic Focus Clear Cell Focus Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Fibroadenoma	Minimal Histiocyte, Minimal
* Mammary Gland			
[Fibroadenoma TGLS = 3-23]			
* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation	Minimal Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 6-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:00
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 551	TRT#: 9	SEX: Male	DAY ON TEST: 730
	DOSE: 2000 PPM(STOP)	DISP: Terminal Sacrifice	HISTO: 98-82259

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLS = 2-22,4-24]			
* Spleen		Fibrosis Leukemia Mononuclear	Moderate
[Fibrosis TGLS = 7-25]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			
* Thyroid Gland	C Cell	Hyperplasia Ultimobranhial Cyst	Moderate Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 552

TRT#: 9

SEX: Male

DAY ON TEST: 595

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Atrophy	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21,2-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 553

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* 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	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 5-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-2]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIOMA MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 4-22]			
[Lipoma TGLS = 6-24]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 553

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82341

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 554

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Mammary Gland	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Seminal Vesicle	Skeletal Muscle	Spinal Cord	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Brain		Hemorrhage	Moderate
		Necrosis	Moderate
[Hemorrhage TGLS = 12-1]			
[Necrosis TGLS = 12-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Degeneration TGLS = 7-5]			
[Pigmentation TGLS = 7-5]			
* Liver		Histiocytic Sarcoma	
		Necrosis	Focal, Moderate
Note: HISTIO SARC IS ALSO PRESENT ON SLIDE 6.			
[Histiocytic Sarcoma TGLS = 9-24]			
* Lung		Hemorrhage	Moderate
		Histiocytic Sarcoma	
	Alveolar Epith	Hyperplasia	Mild
[Hemorrhage TGLS = 11-2]			
[Histiocytic Sarcoma TGLS = 11-2]			
Lymph Node	Mediastinal	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 554

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82342

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Histiocytic Sarcoma	
	Mediastinal	Pigmentation	Moderate
	[Hemorrhage TGLS = 10-3]		
	[Histiocytic Sarcoma TGLS = 10-3]		
	[Pigmentation TGLS = 10-3]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
	[Hemorrhage TGLS = 8-5]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Histiocytic Sarcoma	
* Preputial Gland		Atrophy	Moderate
	[Atrophy TGLS = 3-8]		
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
		Histiocytic Sarcoma	
	Subcut Tiss	Lipoma	
	Note: A FIBROMA IS ALSO PRESENT ON SLIDE 22.		
	[Fibroma TGLS = 1-21]		
	[Histiocytic Sarcoma TGLS = 2-22]		
	[Lipoma TGLS = 14-25]		
* Spleen		Fibrosis	Marked
		Hematopoietic Cell Proliferation	Marked
	Note: MODERATE CONGESTION IN AREA OF SPLENIC FIBROSIS; NOT TABULATED.		
	[Fibrosis TGLS = 6-23]		
	[Hematopoietic Cell Proliferation TGLS = 5-6]		
* Stomach, Forestomach		Edema	Mild
		Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Erosion	Moderate
	[Erosion TGLS = 13-4]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 554

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82342

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

* Thyroid Gland

C Cell

Carcinoma

PRIMARY CAUSE OF DEATH

- Skin Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 555

TRT#: 9

SEX: Male

DAY ON TEST: 708

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Mixed Cell Focus	
Note: MIXED CL FOCUS IS ON SLIDE 25.			
		[Hepatodiaphragmatic Nodule TGLS = 6-25]	
		[Leukemia Mononuclear TGLS = 7-6]	
* Pancreas		Atrophy	Minimal
Peritoneum	Mesothelium	Hyperplasia	Minimal
* Preputial Gland		Atrophy	Mild
* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 1-21,2-22,3-23]	
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 555

TRT#: 9

SEX: Male

DAY ON TEST: 708

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82343

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 5-24]

[Leukemia Mononuclear TGLS = 4-6]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

Interstit Cell

Hyperplasia

Mild

[Adenoma TGLS = 8-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 556

TRT#: 9

SEX: Male

DAY ON TEST: 703

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Intestine Small, Duodenum

OBSERVATIONS

* Adrenal Cortex [Hyperplasia TGLS = 7-10]		Hyperplasia	Focal, Marked
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Hemorrhage	Marked
	Centrilobular	Hepatodiaphragmatic Nodule	
Note: BASOPH FOCUS IS ON SLIDE 28. [Hemorrhage TGLS = 9-26] [Hepatodiaphragmatic Nodule TGLS = 11-28] [Necrosis TGLS = 9-26,10-27]		Necrosis	Marked
* Mammary Gland [Fibroadenoma TGLS = 3-23]		Fibroadenoma	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
Peritoneum	Mesothelium	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 556

TRT#: 9

SEX: Male

DAY ON TEST: 703

DOSE: 2000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-82344

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 12-1]

* Preputial Gland

Atrophy

Moderate

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-21,2-22,4-24]

* Spleen

Lymph Follic

Atrophy

Moderate

Hematopoietic Cell Proliferation

Moderate

Histiocytic Sarcoma

[Histiocytic Sarcoma TGLS = 6-25]

* Stomach, Glandular

Erosion

Moderate

[Erosion TGLS = 14-4]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 8-7]

PRIMARY CAUSE OF DEATH

- Spleen Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 557

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Congestion	Moderate
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-23]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	

Note: LIPOMA ON SLIDE 25 CONTAINS EXTENSIVE FIBROMATOUS TISSUE.

[Fibroma TGLS = 1-21,4-26]

[Fibrosarcoma TGLS = 5-27]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 557

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82235

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 3-25]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 6-7]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 558

TRT#: 9

SEX: Male

DAY ON TEST: 649

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-81800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Necrosis	Moderate
Note: MINERALIZATION ASSOCIATED WITH CENTRIOBULAR NECROSIS; NOT TABULATED.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Moderate
[Pigmentation TGLS = 9-28]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-25]			
* Nose	Respirat Epith	Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 7-26]			
* Preputial Gland		Adenoma	
		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21,2-22,3-23,4-24,10-29,11-30,12-31]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 558

TRT#: 9

SEX: Male

DAY ON TEST: 649

DOSE: 2000 PPM(STOP)

DISP: Natural Death

HISTO: 97-81800

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibroma	
		Pigmentation	Moderate
[Fibroma TGLS = 8-27]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7-1]			

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Skin Subcut Tiss Fibroma;Spleen Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 559

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Brain | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | | | |

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------|----------------------------------|------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Moderate |
| | | Hypertrophy | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Epididymis | | Atypia Cellular | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | Moderate |
| * Intestine Large, Rectum | | Leiomyosarcoma | |
| [Leiomyosarcoma TGLS = 6-25,7-25] | | | |
| * Kidney | | Inflammation | Chronic, Mild |
| | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Moderate |
| | | Eosinophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | Centrilobular | Necrosis | Minimal |
| [Clear Cell Focus TGLS = 5-6] | | | |
| [Degeneration TGLS = 5-6] | | | |
| [Eosinophilic Focus TGLS = 5-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 559

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 2000 PPM(STOP)

DISP: Terminal Sacrifice

HISTO: 98-82236

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 3-24]

* Pancreas	Acinus	Hyperplasia	Focal, Mild
Peritoneum		Mesothelioma Malignant	

Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.

[Mesothelioma Malignant TGLS = 2-22]

* Pituitary Gland	Pars Distalis	Adenoma	
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[Adenoma TGLS = 8-1]

* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked

Note: MARKED FIBROSIS ASSOCIATED WITH CHRONIC INFLAMMATION.

* Skin	Subcut Tiss	Fibroma	
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[Fibroma TGLS = 1-21]

* Spleen		Hematopoietic Cell Proliferation	Moderate
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[Hematopoietic Cell Proliferation TGLS = 4-6]

* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 560

TRT#: 9

SEX: Male

DAY ON TEST: 92

DOSE: 2000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Salivary Glands	Atrophy	Moderate
* Spleen	Congestion	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 561

TRT#: 10

SEX: Male

DAY ON TEST: 432

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Cholangiocarcinoma	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Cholangiocarcinoma TGLS = 3-24]			
[Clear Cell Focus TGLS = 9-26]			
[Eosinophilic Focus TGLS = 9-26]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 2-23,8-25]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 4-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:00
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 561	TRT#: 10	SEX: Male	DAY ON TEST: 432
	DOSE: 5000 PPM(STOP)	DISP: Moribund Sacrifice	HISTO: 97-79019

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia Ultimobranchial Cyst	Moderate Moderate
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PRIMARY CAUSE OF DEATH - Liver Cholangiocarcinoma
CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma;Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 562

TRT#: 10

SEX: Male

DAY ON TEST: 544

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Moderate
	[Hemorrhage TGLS = 8-3]		
	[Pigmentation TGLS = 8-3]		
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA IS ON SLIDE 8.			
* Nose		Foreign Body	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
	[Mesothelioma Malignant TGLS = 1-21]		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Moderate
	[Atrophy TGLS = 9-8]		
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 562

TRT#: 10

SEX: Male

DAY ON TEST: 544

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80053

ORGAN AND ACCOUNTABLE SITE STATUS

Note: THE FIBROMA ON SLIDE 25 CONTAINS EXTENSIVE FATTY TISSUE.

[Fibroma TGLS = 2-22,5-25,6-26]

[Lipoma TGLS = 3-23,4-24]

* Spleen

Fibrosis

Mild

[Fibrosis TGLS = 7-27]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 10-7,11-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 563

TRT#: 10

SEX: Male

DAY ON TEST: 501

DOSE: 5000 PPM(STOP)

DISP: Natural Death

HISTO: 97-79482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Intestine Small, Ileum	* Lymph Node, Mesenteric	* Pituitary Gland
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OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
		Mesothelioma Malignant	Metastatic (Peritoneum)
		Thrombosis	Moderate
Note: THROMBOSIS IS ON SLIDE 3.			
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver	Centrilobular	Mesothelioma Malignant	Metastatic (Peritoneum)
		Necrosis	Moderate
* Lung		Mesothelioma Malignant	Metastatic (Peritoneum)
* Pancreas			
Note: PANCREAS IS ON SLIDE 4,			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDES 4, 4-1, 7, 7-1, AND 10.			
[Mesothelioma Malignant TGLS = 2-22,6-23]			
* Preputial Gland		Atrophy	Marked
* Salivary Glands		Atrophy	Moderate
* Spleen	Lymph Follic	Atrophy	Moderate
		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 563

TRT#: 10

SEX: Male

DAY ON TEST: 501

DOSE: 5000 PPM(STOP)

DISP: Natural Death

HISTO: 97-79482

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-21]

* Stomach, Glandular

* Testes

Germinal Epith

Hematopoietic Cell Proliferation

Moderate

Erosion

Moderate

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 564

TRT#: 10

SEX: Male

DAY ON TEST: 540

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adren Cortex			
Note: CYST IN ADRENAL CORTEX; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 1-21]			
* Pituitary Gland	Pars Intermed	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 7-8]			
* Salivary Glands		Atrophy	Minimal
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 3-23,4-24]			
[Squamous Cell Papilloma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 564

TRT#: 10

SEX: Male

DAY ON TEST: 540

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80002

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Germinal Epith

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 565

TRT#: 10

SEX: Male

DAY ON TEST: 540

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Parathyroid Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 11-6]			
[Infiltration Cellular TGLS = 11-6]			
[Mixed Cell Focus TGLS = 11-6]			
* Lung	Alveolar Epith	Hemorrhage	Mild
		Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric			
[Hyperplasia TGLS = 12-5]			
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 565

TRT#: 10

SEX: Male

DAY ON TEST: 540

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80003

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	Multiple
Note: MULTIPLE FOCI OF MINERALIZATION IN TGL 6-25 MASS. [Fibroma TGLS = 4-23,5-24,6-25,8-27,9-28] [Lipoma TGLS = 3-22,7-26]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 10-6]			
* Testes	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 566	TRT#: 10 DOSE: 5000 PPM(STOP)	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 419 HISTO: 97-78998
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Prostate	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	

Note: CLEAR CELL FOCI ALSO PRESENT ON SLIDE 6.

[Basophilic Focus TGLS = 10-26]

[Clear Cell Focus TGLS = 10-26]

[Mixed Cell Focus TGLS = 10-26]

* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Marked
* Lymph Node, Mesenteric		Ectasia	Marked
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 566

TRT#: 10

SEX: Male

DAY ON TEST: 419

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78998

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 2-23]

[Hyperplasia TGLS = 3-8]

Peritoneum

Mesothelioma Malignant

Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.

[Mesothelioma Malignant TGLS = 6-24]

* Pituitary Gland

Pars Distalis

Cytoplasmic Alteration

Moderate

Pars Distalis

Hyperplasia

Focal, Mild

* Preputial Gland

Atrophy

Mild

[Atrophy TGLS = 4-8]

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-21]

* Testes

Interstit Cell

Adenoma

[Adenoma TGLS = 7-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 567

TRT#: 10

SEX: Male

DAY ON TEST: 579

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
		Necrosis	Focal, Minimal
[Eosinophilic Focus TGLS = 3-6]			
[Mixed Cell Focus TGLS = 3-6]			
[Necrosis TGLS = 3-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Sarcoma	

Note: TGL 1-21 HAS SOME FEATURES SUGGESTIVE OF OSTEOSARCOMA, ALTHOUGH NO OSTEOID IS VISIBLE.

Note: THE FIBROMA ON SLIDE 22 HAS EXCESSIVE FATTY TISSUE WITHIN THE MASS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 567

TRT#: 10

SEX: Male

DAY ON TEST: 579

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80465

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 2-22,7-24]

[Sarcoma TGLS = 1-21]

* Spleen

Fibrosis

Moderate

Hematopoietic Cell Proliferation

Mild

[Fibrosis TGLS = 5-23]

* Testes

Germinal Epith

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 568

TRT#: 10

SEX: Male

DAY ON TEST: 603

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* 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	* Nose	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow	Hyperplasia	Moderate
* Epididymis	Atypia Cellular	Moderate
* Heart	Cardiomyopathy	Moderate
* Intestine Large, Colon [Mesothelioma Malignant TGLS = 17-31]	Mesothelioma Malignant	Metastatic (Peritoneum)
* Kidney [Hydronephrosis TGLS = 14-5]	Hydronephrosis Nephropathy	Moderate Mild
* Liver [Basophilic Focus TGLS = 18-32] [Eosinophilic Focus TGLS = 18-32] [Hepatodiaphragmatic Nodule TGLS = 15-29] [Mesothelioma Malignant TGLS = 16-30]	Basophilic Focus Eosinophilic Focus Hematopoietic Cell Proliferation Hepatodiaphragmatic Nodule Mesothelioma Malignant	Minimal Metastatic (Peritoneum)
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 5-22,6-23,7-24,9-26]	Fibroadenoma	
* Pancreas	Atrophy	Mild
Peritoneum	Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 568

TRT#: 10

SEX: Male

DAY ON TEST: 603

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80526

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.

[Mesothelioma Malignant TGLS = 2-21,11-27]

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Marked
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 4-8,8-25]			
[Squamous Cell Papilloma TGLS = 19-33]			
* Spleen		Fibrosis	Marked
[Fibrosis TGLS = 13-28]			
[Hematopoietic Cell Proliferation TGLS = 12-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 10-7]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 569

TRT#: 10

SEX: Male

DAY ON TEST: 464

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Int Lg Colon			
Note: TGL 8-24 IS LOCALIZED MARKED SUBMUCOSAL LYMPHANGIECTASIS; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Kidney		Cyst	Moderate
		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
[Cyst TGLS = 9-25]			
[Inflammation TGLS = 3-5,6-5]			
[Nephropathy TGLS = 3-5,6-5]			
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Clear Cell Focus TGLS = 7-6]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-22]			
* Preputial Gland		Adenoma	
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 569

TRT#: 10

SEX: Male

DAY ON TEST: 464

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79081

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 570

TRT#: 10

SEX: Male

DAY ON TEST: 505

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 5-24]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Necrosis	Focal, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Moderate
[Pigmentation TGLS = 7-26]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2-22,3-23]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 6-8]			
* Salivary Glands		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 570

TRT#: 10

SEX: Male

DAY ON TEST: 505

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79620

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 1-21]			
[Lipoma TGLS = 8-25]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 571

TRT#: 10

SEX: Male

DAY ON TEST: 464

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Clear Cell Focus TGLS = 9-6]			
[Hepatodiaphragmatic Nodule TGLS = 8-25]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-23]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 5-8]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,4-24]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 6-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 571

TRT#: 10

SEX: Male

DAY ON TEST: 464

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79082

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 572

TRT#: 10

SEX: Male

DAY ON TEST: 471

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Necrosis	Focal, Marked
[Necrosis TGLS = 8-25]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 9-26]			
[Pigmentation TGLS = 9-26]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pancreas	Acinus	Adenoma	
[Adenoma TGLS = 7-24]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Carcinoma	
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 572

TRT#: 10

SEX: Male

DAY ON TEST: 471

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79249

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 10-27]	Subcut Tiss	Fibroma	
* Spleen [Fibrosis TGLS = 5-6]		Fibrosis Hematopoietic Cell Proliferation	Moderate Mild
* Testes [Atrophy TGLS = 3-7]	Germinal Epith	Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant		
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Fibroadenoma;Preputial Gland Carcinoma;Skin Subcut Tiss Fibroma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 573

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 5-6]			
Lymph Node	Renal	Hemorrhage	Moderate
	Renal	Pigmentation	Moderate
[Hemorrhage TGLS = 4-21]			
[Pigmentation TGLS = 4-21]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Atrophy	Marked
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
[Congestion TGLS = 3-6]			
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Testes	Germinal Epith	Atrophy	Marked
		Mineralization	Moderate
[Atrophy TGLS = 1-7]			
[Mineralization TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 574

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 3-6]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Preputial Gland		Atrophy	Mild
	[Atrophy TGLS = 2-8]		
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Atrophy	Marked
* Spleen		Congestion	Mild
	[Congestion TGLS = 1-6]		
	[Hematopoietic Cell Proliferation TGLS = 1-6]		
* Testes	Germinal Epith	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 575

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 4-6]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Preputial Gland		Atrophy	Mild
	[Atrophy TGLS = 1-8]		
* Salivary Glands		Atrophy	Marked
* Spleen		Congestion	Minimal
	[Congestion TGLS = 3-6]	Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Testes	Germinal Epith	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 576

TRT#: 10

SEX: Male

DAY ON TEST: 502

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Epididymis	* Urinary Bladder
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Angiectasis TGLS = 5-6]			
* Lung		Alveolar/Bronchiolar Carcinoma	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary GI			
Note: MAMMARY GLAND IS ADJACENT TO PREPUTIAL GLAND.			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cytoplasmic Alteration	Minimal
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Atrophy	Marked
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
		Schwannoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 576

TRT#: 10

SEX: Male

DAY ON TEST: 502

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79483

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21,2-22]

[Schwannoma Malignant TGLS = 3-23]

* Spleen

Fibrosis

Moderate

[Fibrosis TGLS = 4-24]

* Testes

Germinal Epith

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Skin Schwannoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma;Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 577

TRT#: 10

SEX: Male

DAY ON TEST: 359

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 578

TRT#: 10

SEX: Male

DAY ON TEST: 417

DOSE: 5000 PPM(STOP)

DISP: Natural Death

HISTO: 97-78969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
		Pigmentation	Mild
* Kidney	Renal Tubule	Necrosis	Mild
		Nephropathy	Mild
* Liver	Centrilobular	Necrosis	Marked
	[Necrosis TGLS = 6-23]		
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ON SLIDE 7.		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Moderate
	[Atrophy TGLS = 2-8]		
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hemangioma	
		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 578

TRT#: 10

SEX: Male

DAY ON TEST: 417

DOSE: 5000 PPM(STOP)

DISP: Natural Death

HISTO: 97-78969

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemangioma TGLS = 4-22]		Necrosis	Marked
[Necrosis TGLS = 4-22]			
* Stomach, Glandular		Erosion	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 5-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 579

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis		Atrophy	Mild
		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 4-6]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Preputial Gland		Atrophy	Mild
	[Atrophy TGLS = 1-8]		
* Salivary Glands		Atrophy	Marked
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
	[Congestion TGLS = 3-6]		
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
	[Pigmentation TGLS = 3-6]		
* Testes	Germinal Epith	Atrophy	Moderate
		Mineralization	Mild
	[Mineralization TGLS = 2-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 579

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74822

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 580

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atrophy	Mild
		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 4-6]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Salivary Glands		Atrophy	Marked
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
	[Congestion TGLS = 3-6]		
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Testes	Germinal Epith	Atrophy	Moderate
		Mineralization	Minimal
	[Mineralization TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 581

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atrophy	Mild
		Atypia Cellular	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Mild
		[Hepatodiaphragmatic Nodule TGLS = 4-21]	
		[Vacuolization Cytoplasmic TGLS = 3-6]	
* Nose	Olfactory Epi	Degeneration	Moderate
* Pancreas		Atrophy	Minimal
* Preputial Gland		Atrophy	Mild
		[Atrophy TGLS = 2-8]	
* Salivary Glands		Atrophy	Marked
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
		[Congestion TGLS = 1-6]	
		[Hematopoietic Cell Proliferation TGLS = 1-6]	
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 582

TRT#: 10

SEX: Male

DAY ON TEST: 391

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-23]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cytoplasmic Alteration	Moderate
Note: SEVERAL PIGMENT-LADEN MACROPHAGES AT JUNCTION OF PARS DISTALIS AND PARS INTERMEDIA.			
[Angiectasis TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 582

TRT#: 10

SEX: Male

DAY ON TEST: 391

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78910

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-21]

[Pigmentation TGLS = 3-21]

* Testes

Germinal Epith

Atrophy

Marked

[Atrophy TGLS = 7-7]

Zymbal's Gland

Carcinoma

[Carcinoma TGLS = 4-22]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 583

TRT#: 10

SEX: Male

DAY ON TEST: 547

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 10-27]			
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Marked
[Hepatocellular Adenoma TGLS = 8-26]			
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 12-3-1]			
[Pigmentation TGLS = 12-3-1]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-25]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Preputial Gland		Atrophy	Moderate
		Cyst	Moderate
[Atrophy TGLS = 7-8]			
[Cyst TGLS = 6-8]			
* Salivary Glands		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 583

TRT#: 10

SEX: Male

DAY ON TEST: 547

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80081

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
	[Fibroma TGLS = 1-21,2-22]		
	[Fibrosarcoma TGLS = 3-23,4-24]		
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Fibrosarcoma		
CONTRIBUTORY CAUSE OF DEATH	- Liver Hepatocellular Adenoma; Mammary Gland Fibroadenoma; Peritoneum Mesothelioma Malignant; Skin Subcut Tiss Fibroma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 584

TRT#: 10

SEX: Male

DAY ON TEST: 512

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Infarct	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Clear Cell Focus TGLS = 7-6]		
	[Infiltration Cellular TGLS = 7-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 8-2-1]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL (PRESENT ON SLIDE 7) IS IN EARLY STAGE.		
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cytoplasmic Alteration	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Atrophy	Mild
	[Atrophy TGLS = 4-8]		
* Salivary Glands		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 584

TRT#: 10

SEX: Male

DAY ON TEST: 512

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79632

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 2-22,3-23]	Subcut Tiss	Fibroma	Multiple
* Spleen [Fibrosis TGLS = 5-6]		Fibrosis Hematopoietic Cell Proliferation	Marked Mild
* Testes [Atrophy TGLS = 6-7]	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 585

TRT#: 10

SEX: Male

DAY ON TEST: 567

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Nephropathy	Minimal
	[Pigmentation TGLS = 7-5]	Pigmentation	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mixed Cell, Moderate
	Centrilobular	Necrosis	Minimal
* Lymph Node, Mandibular		Atrophy	Moderate
Peritoneum		Mesothelioma Malignant	
		Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.	
		[Mesothelioma Malignant TGLS = 1-21,4-23]	
* Pituitary Gland	Pars Intermed	Cyst	Moderate
	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Marked
		[Atrophy TGLS = 9-8]	
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 2-22]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Ulcer	Moderate
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 585

TRT#: 10

SEX: Male

DAY ON TEST: 567

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80166

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-7]

Germinal Epith

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 586

TRT#: 10

SEX: Male

DAY ON TEST: 362

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Pigmentation	Mild
Note: MILD FIBROSIS; NOT TABULATED ON TDMS.			
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Marked
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Inflammation	Chronic, Moderate
	Subcut Tiss	Lipoma	
Note: ABUNDANT ADIPOSE TISSUE INTERSPERSED WITHIN FIBROSARCOMA (TGL 2-22). [Fibroma TGLS = 4-23] [Lipoma TGLS = 1-21,2-22]			
* Testes	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 586

TRT#: 10

SEX: Male

DAY ON TEST: 362

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78787

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 587

TRT#: 10

SEX: Male

DAY ON TEST: 502

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Esophagus	* Mammary Gland
-------------	-----------------

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 5-8-1]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22,3-23]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 588

TRT#: 10

SEX: Male

DAY ON TEST: 502

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-22]			
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,4-23]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 5-7]			
[Atrophy TGLS = 6-7]			

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 588

TRT#: 10

SEX: Male

DAY ON TEST: 502

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79485

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 589

TRT#: 10

SEX: Male

DAY ON TEST: 391

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Nephropathy	Minimal
	[Pigmentation TGLS = 4-5]	Pigmentation	Moderate
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 5-23]	Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Marked
	[Pigmentation TGLS = 6-3]		
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
	[Mesothelioma Malignant TGLS = 2-21,3-22]		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Mild
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Germinal Epith	Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 589

TRT#: 10

SEX: Male

DAY ON TEST: 391

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78911

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 590

TRT#: 10

SEX: Male

DAY ON TEST: 485

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* 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
		Hypertrophy	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7. [Mesothelioma Malignant TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 4-8]			
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 6-25] [Fibrosarcoma TGLS = 1-21] [Lipoma TGLS = 5-24]			
* Spleen		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 590

TRT#: 10

SEX: Male

DAY ON TEST: 485

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79288

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 7-26]

* Testes

[Atrophy TGLS = 3-7]

Germinal Epith

Hematopoietic Cell Proliferation

Mild

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 591

TRT#: 10

SEX: Male

DAY ON TEST: 555

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	[Clear Cell Focus TGLS = 10-6]		
	[Eosinophilic Focus TGLS = 10-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[Alveolar/Bronchiolar Carcinoma TGLS = 11-28,12-2,13-2]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 7-25]		
Penis			
	Note: CHRONIC INFLAMMATION AND HYPERPLASIA INVOLVING PREPUCE; NOT CODED ON TDMS.		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Moderate
	Note: ATROPHY CONSISTS OF DEPLETION OF SECRETIONS IN SECRETORY DUCTS OF SUBMANDIBULAR GLAND.		
Skeletal Muscle		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLS = 9-27]		
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 591

TRT#: 10

SEX: Male

DAY ON TEST: 555

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80211

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 5-23 FIBROMA IS ENCROACHING ON PAROTID SAVILARY GLAND.

[Fibroma TGLS = 3-21,5-23,6-24]

[Lipoma TGLS = 4-22]

* Spleen

Fibrosis

Moderate

Hematopoietic Cell Proliferation

Minimal

[Fibrosis TGLS = 8-26]

* Testes

Germinal Epith

Atrophy

Marked

[Atrophy TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 592

TRT#: 10

SEX: Male

DAY ON TEST: 384

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Epididymis			
Note: MODERATE EDEMA OF ONE EPIDIDYMIS; NOT CODED ON TDMS.			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
		Pigmentation	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:00
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 592	TRT#: 10	SEX: Male	DAY ON TEST: 384
	DOSE: 5000 PPM(STOP)	DISP: Moribund Sacrifice	HISTO: 97-78912

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-22]

* Testes	Germinal Epith	Atrophy	Marked
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PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Fibroma
CONTRIBUTORY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 593

TRT#: 10

SEX: Male

DAY ON TEST: 419

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
		Pigmentation	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 6-5]		
* Liver		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL ALSO PRESENT ON SLIDES 4, 5, 6, AND 7.		
	[Mesothelioma Malignant TGLS = 2-23,4-8]		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 3-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 593

TRT#: 10

SEX: Male

DAY ON TEST: 419

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78999

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 594

TRT#: 10

SEX: Male

DAY ON TEST: 485

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-24]			
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 5-8]			
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	Multiple
[Fibrosarcoma TGLS = 2-22,3-23]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 594

TRT#: 10

SEX: Male

DAY ON TEST: 485

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79289

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 595

TRT#: 10

SEX: Male

DAY ON TEST: 502

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Seminal Vesicle

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	[Clear Cell Focus TGLS = 4-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 5-2]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL ALSO PRESENT ON SLIDES 4 AND 7.		
	[Mesothelioma Malignant TGLS = 6-22]		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Marked
	Note: PREPUTIAL GL IS ON SLIDE 8-1.		
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 1-21,2-23]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 3-7]		

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 595

TRT#: 10

SEX: Male

DAY ON TEST: 502

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79486

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 596

TRT#: 10

SEX: Male

DAY ON TEST: 384

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Bone	Cranium	Osteopetrosis	Mild
[Osteopetrosis TGLS = 15-29]			
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
		Pigmentation	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Cholangiocarcinoma	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
Note: HDN IS ON SLIDE 6.			
		[Basophilic Focus TGLS = 10-6]	
		[Cholangiocarcinoma TGLS = 8-25,9-26]	
		[Clear Cell Focus TGLS = 10-6]	
		[Mixed Cell Focus TGLS = 10-6]	
* Lung	Alveolar Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 596	TRT#: 10 DOSE: 5000 PPM(STOP)	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 384 HISTO: 97-78913
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ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node [Pigmentation TGLS = 12-3]	Mediastinal	Pigmentation	Marked
* Mammary Gland [Fibroadenoma TGLS = 1-21]		Fibroadenoma	
Peritoneum Note: MESOTHELIO MAL IS ALSO ON SLIDE 7. [Mesothelioma Malignant TGLS = 6-23]		Mesothelioma Malignant	
* Pituitary Gland * Preputial Gland [Atrophy TGLS = 4-8] [Carcinoma TGLS = 2-8]	Pars Distalis	Cytoplasmic Alteration Atrophy Carcinoma	Moderate Moderate
* Salivary Glands * Skin [Fibroma TGLS = 13-27] [Fibrosarcoma TGLS = 3-22]	Subcut Tiss Subcut Tiss	Atrophy Fibroma Fibrosarcoma	Moderate
* Spleen [Fibrosis TGLS = 5-6,5-28]		Fibrosis Hematopoietic Cell Proliferation	Marked Mild
* Testes [Atrophy TGLS = 11-7]	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Liver Cholangiocarcinoma; Mammary Gland Fibroadenoma; Preputial Gland Carcinoma; Skin Subcut Tiss Fibroma; Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 597

TRT#: 10

SEX: Male

DAY ON TEST: 595

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Esophagus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Hydronephrosis	Minimal
		Nephropathy	Minimal
	[Hydronephrosis TGLS = 7-5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLS = 8-6]		
	[Clear Cell Focus TGLS = 9-6]		
* Lung		Hemorrhage	Moderate
	Alveolar Epith	Hyperplasia	Moderate
	[Hemorrhage TGLS = 10-2]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]		
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 4-24]		
* Skin	Subcut Tiss	Fibroma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 597

TRT#: 10

SEX: Male

DAY ON TEST: 595

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80504

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 2-22,3-23]

* Spleen

Fibrosis

Moderate

[Fibrosis TGLS = 11-25]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 5-7]

[Atrophy TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 598

TRT#: 10

SEX: Male

DAY ON TEST: 391

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Pigmentation	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Moderate
Skeletal Muscle		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 7-24]			
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22]			
* Spleen		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:00
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 598	TRT#: 10	SEX: Male	DAY ON TEST: 391
	DOSE: 5000 PPM(STOP)	DISP: Moribund Sacrifice	HISTO: 97-78914

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 6-23]		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 8-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 599

TRT#: 10

SEX: Male

DAY ON TEST: 439

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Marked
* Liver		Basophilic Focus	
		Mesothelioma Malignant	Metastatic (Peritoneum)
	[Mesothelioma Malignant TGLS = 7-24,9-26]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Mesothelioma Malignant	Metastatic (Peritoneum)
		Pigmentation	Marked
	Lymph Node		
	Mediastinal		
	[Pigmentation TGLS = 8-25]		
* Pancreas		Mesothelioma Malignant	Metastatic (Peritoneum)
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL ALSO PRESENT ON SLIDES 3, 4, 5, 6, 7, AND 10.		
	[Mesothelioma Malignant TGLS = 2-21]		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Moderate
	[Atrophy TGLS = 6-8]		
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Minimal
Skeletal Muscle		Mesothelioma Malignant	Metastatic (Peritoneum)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 599

TRT#: 10

SEX: Male

DAY ON TEST: 439

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79020

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 3-23]

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 5-7]		
	[Atrophy TGLS = 4-7]		
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 600

TRT#: 10

SEX: Male

DAY ON TEST: 621

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Esophagus

INSUFFICIENT TISSUE

* Epididymis

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Moderate
* Brain		Hydrocephalus	Mild
		Oligodendroglioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Clear Cell Focus TGLS = 7-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 10-2-1]		
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Pancreatic	Hyperplasia	Histiocytic, Mild
	Mediastinal	Pigmentation	Marked
	[Hemorrhage TGLS = 8-24]		
	[Hyperplasia TGLS = 9-25]		
	[Pigmentation TGLS = 8-24]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 600

TRT#: 10

SEX: Male

DAY ON TEST: 621

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81059

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Note: ACINAR HYPERPLASIA IS PRESENT ON SLIDES 4 AND 7.			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ASLO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 5-23]			
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 4-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 2-22]			
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Fibrosis	Marked
[Fibrosis TGLS = 6-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
Note: THE ATROPHIED TESTIS IS ON SLIDE 7-1.			
[Adenoma TGLS = 11-7]			

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Brain Oligodendroglioma Malignant;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 601

TRT#: 10

SEX: Male

DAY ON TEST: 299

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 96-77637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 3-22]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Testes	Germinal Epith	Atrophy	Marked
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 602

TRT#: 10

SEX: Male

DAY ON TEST: 597

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	Mesentery	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 10-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 8-25]			
Mesentery			
Note: TGL 9 APPEARS TO BE NORMAL MESENTERIC FAT.			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Moderate
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 602

TRT#: 10

SEX: Male

DAY ON TEST: 597

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80495

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	
	[Fibroma TGLS = 6-24]		
	[Fibrosarcoma TGLS = 4-22]		
	[Lipoma TGLS = 5-23]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 7-6]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma
CONTRIBUTORY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 603

TRT#: 10

SEX: Male

DAY ON TEST: 453

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Prostate	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Pigmentation	Mild
* Kidney		Nephropathy	Minimal
* Liver		Atrophy	Moderate
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	Kupffer Cell	Pigmentation	Marked
[Atrophy TGLS = 7-24]			
[Pigmentation TGLS = 7-24]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
		Pigmentation	Mild
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 6-7]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 603

TRT#: 10

SEX: Male

DAY ON TEST: 453

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79067

ORGAN AND ACCOUNTABLE SITE STATUS

Subcut Tiss

Schwannoma Malignant

[Fibroma TGLS = 1-21,4-23]

[Schwannoma Malignant TGLS = 2-22]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Moderate

[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Schwannoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 604

TRT#: 10

SEX: Male

DAY ON TEST: 412

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 5-23,8-7]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Marked
[Atrophy TGLS = 4-8]			
* Prostate	Ventral	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Fibrosis	Marked
		Hematopoietic Cell Proliferation	Mild
[Fibrosis TGLS = 2-24]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 6-7]			
[Atrophy TGLS = 7-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 604

TRT#: 10

SEX: Male

DAY ON TEST: 412

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78965

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 605

TRT#: 10

SEX: Male

DAY ON TEST: 632

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Mild
[Basophilic Focus TGLS = 8-6]			
[Clear Cell Focus TGLS = 8-6]			
[Eosinophilic Focus TGLS = 8-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 9-2]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 605

TRT#: 10

SEX: Male

DAY ON TEST: 632

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81113

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	
	[Fibroma TGLS = 1-21,3-23,4-24,5-25]		
	[Fibrosarcoma TGLS = 2-22]		
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Marked
		Pigmentation	Moderate
	[Fibrosis TGLS = 6-26]		
	[Hematopoietic Cell Proliferation TGLS = 7-6]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 10-7]		
	[Atrophy TGLS = 11-7]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 606

TRT#: 10

SEX: Male

DAY ON TEST: 569

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Nose
- * Seminal Vesicle
- * Thyroid Gland

- * Blood Vessel
- * Epididymis
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Trachea

- * Bone
- * Esophagus
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Urinary Bladder

- * Bone Marrow
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Mammary Gland
- * Prostate
- * Thymus

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Liver

- Degeneration
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Eosinophilic Focus
- Hepatocellular Adenoma
- Infiltration Cellular
- Leukemia Mononuclear

- Fatty, Minimal
- Moderate
- Mild
- Mixed Cell, Mild

- [Basophilic Focus TGLS = 10-6]
- [Clear Cell Focus TGLS = 10-6]
- [Eosinophilic Focus TGLS = 10-6]
- [Hepatocellular Adenoma TGLS = 9-6]

- * Lung
- * Lymph Node, Mesenteric
- Peritoneum

- Alveolar/Bronchiolar Adenoma
- Hyperplasia
- Mesothelioma Malignant

- Lymphoid, Mild

Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.

- [Mesothelioma Malignant TGLS = 1-21]

- * Pituitary Gland
- Pars Distalis

- Adenoma

- [Adenoma TGLS = 11-1]

- * Preputial Gland

- Atrophy

- Mild

- [Atrophy TGLS = 3-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 606

TRT#: 10

SEX: Male

DAY ON TEST: 569

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80202

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Moderate

* Skin

Subcut Tiss

Fibroma

Multiple

Note: EXTENSIVE FATTY TISSUE WITHIN FIBROMA ON SLIDE 24.

[Fibroma TGLS = 4-22,5-23,6-24,7-25]

* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

[Fibrosis TGLS = 8-6]

* Testes

Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 607

TRT#: 10

SEX: Male

DAY ON TEST: 499

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	[Hepatocellular Adenoma TGLS = 9-6,10-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	Note: MARKED SQUAMOUS CELL DIFFERENTIATION OF ALV BRON CARC ON SLIDES 2 AND 32.		
	Note: ALV BRON CARC ALSO PRESENT ON SLIDE 2.		
	[Alveolar/Bronchiolar Carcinoma TGLS = 12-27,14-32,15-29]		
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
	[Hemorrhage TGLS = 13-28]		
	[Pigmentation TGLS = 13-28]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 16-30]		
* Nose		Foreign Body	
* Parathyroid Gland			
	Note: MILD VACUOLIZATION OF PARATHYROID GLAND CHIEF CELLS; NOT TABULATED ON TDMS.		
Peritoneum		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 8-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 607

TRT#: 10

SEX: Male

DAY ON TEST: 499

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79487

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Cytoplasmic Alteration	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 2-8-1]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Lipoma	Multiple
[Fibroma TGLS = 6-25]			
[Fibrosarcoma TGLS = 1-21]			
[Lipoma TGLS = 3-22,4-23,5-24,17-31]			
* Spleen		Fibrosis	Moderate
		Pigmentation	Mild
[Fibrosis TGLS = 7-26]			
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Atrophy TGLS = 11-7]			
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Note: METASTATIC ALV BRON CARC IS ON SLIDE 3-1.			

PRIMARY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma;Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibrosarcoma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 608

TRT#: 10

SEX: Male

DAY ON TEST: 299

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 96-77638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Diffuse, Mild
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
		Pigmentation	Mild
* Kidney		Hydronephrosis	Mild
		Nephropathy	Minimal
* Liver			
Note: MODERATE DIFFUSE GLYCOGEN DEPLETION; NOT CODED ON TDMS.			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21,2-22]			
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Moderate
* Prostate		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 3-23,4-24]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 7-6]			
* Testes		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 608

TRT#: 10

SEX: Male

DAY ON TEST: 299

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 96-77638

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith

Atrophy

Marked

Note: ADENOMA CONTAINS EXCESSIVE HEMORRHAGE.

[Angiectasis TGLS = 6-7]

[Atrophy TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 609

TRT#: 10

SEX: Male

DAY ON TEST: 401

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Mammary Gland		Fibroadenoma	
Note: EXTENSIVE NECROSIS IN FIBROADENOMA ON SLIDE 21. [Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Minimal
* Salivary Glands		Atrophy	Mild
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Skeletal Muscle Rhabdomyosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 610

TRT#: 10

SEX: Male

DAY ON TEST: 384

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
		Pigmentation	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 4-22]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 2-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
Note: LIPOMA IS ON SLIDE 8.			
[Fibroma TGLS = 1-21]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 610

TRT#: 10

SEX: Male

DAY ON TEST: 384

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78915

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-7]

[Atrophy TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 611

TRT#: 10

SEX: Male

DAY ON TEST: 316

DOSE: 5000 PPM(STOP)

DISP: Natural Death

HISTO: 97-78202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Atypia Cellular	Mild
* Heart		Schwannoma Malignant	
Note: TGL 3-5 HAS FEATURES OF ENDOCARDIAL SCHWANNOMA (ANITSCHKOW CELL SARCOMA). [Schwannoma Malignant TGLS = 3-5]			
* Kidney	Renal Tubule	Necrosis	Moderate
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: MODERATE DIFFUSE SINUSOIDAL CONGESTION; NOT CODED ON TDMS.			
* Lung	Alveolar Epith	Congestion	Moderate
		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Marked
[Congestion TGLS = 4-2] [Infiltration Cellular TGLS = 4-2]			
* Nose	Respirat Epith	Foreign Body	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS PRESENT ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 611

TRT#: 10

SEX: Male

DAY ON TEST: 316

DOSE: 5000 PPM(STOP)

DISP: Natural Death

HISTO: 97-78202

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Moderate

* Spleen

Accessory Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Moderate

* Stomach, Glandular

Erosion

Minimal

* Testes

Germinal Epith

Atrophy

Moderate

[Atrophy TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- Heart Schwannoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 612

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 3-6]			
* Nose	Olfactory Epi	Degeneration	Moderate
* Preputial Gland		Atrophy	Mild
[Atrophy TGLS = 1-8]			
* Salivary Glands		Atrophy	Moderate
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
[Congestion TGLS = 2-6]			
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Testes	Germinal Epith	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 613

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis		Atrophy	Mild
		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Preputial Gland		Atrophy	Mild
* Salivary Glands		Atrophy	Marked
* Spleen		Congestion	Mild
	[Congestion TGLS = 3-6]		
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Testes	Germinal Epith	Atrophy	Moderate
	[Mineralization TGLS = 1-7]	Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 614

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
* Liver	Hepatocyte	Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Moderate
		[Hepatodiaphragmatic Nodule TGLS = 4-21]	
		[Vacuolization Cytoplasmic TGLS = 3-6]	
* Nose	Olfactory Epi	Degeneration	Moderate
* Preputial Gland		Atrophy	Mild
		[Atrophy TGLS = 1-8]	
* Salivary Glands		Atrophy	Moderate
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
		[Congestion TGLS = 2-6]	
		[Hematopoietic Cell Proliferation TGLS = 2-6]	
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 615

TRT#: 10

SEX: Male

DAY ON TEST: 464

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Osteosarcoma	
	[Osteosarcoma TGLS = 1-21]		
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Mild
* Liver		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
	[Atrophy TGLS = 3-8]		
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
	Note: FIBROMA IS HEAVILY INFILTRATED WITH MAST CELLS.		
	[Fibroma TGLS = 2-22]		
* Testes	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 615

TRT#: 10

SEX: Male

DAY ON TEST: 464

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79083

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 4-7]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 616

TRT#: 10

SEX: Male

DAY ON TEST: 567

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia Hypertrophy	Moderate Fatty, Moderate Focal, Minimal Focal, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Moderate
[Compression TGLS = 12-1]			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Pigmentation	Mild
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Marked
[Vacuolization Cytoplasmic TGLS = 10-28]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation Fibroadenoma	Moderate
Note: MAMMARY GLAND HYPERPLASIA ALSO PRESENT ON SLIDE 8. [Dilatation TGLS = 7-25] [Fibroadenoma TGLS = 5-23,8-26]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL ALSO PRESENT ON SLIDE 7. [Mesothelioma Malignant TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 13-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 616

TRT#: 10

SEX: Male

DAY ON TEST: 567

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80167

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Atrophy Inflammation	Moderate Chronic, Mild
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Minimal
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	Multiple
[Fibroma TGLS = 11-29]			
[Fibrosarcoma TGLS = 4-22,6-24]			
* Spleen		Fibrosis Hematopoietic Cell Proliferation Pigmentation	Mild Minimal Moderate
[Fibrosis TGLS = 9-27]			
[Pigmentation TGLS = 9-27]			
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Pituitary Gland Pars Distalis Adenoma;Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 617

TRT#: 10

SEX: Male

DAY ON TEST: 567

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		[Clear Cell Focus TGLS = 7-6]	
		[Eosinophilic Focus TGLS = 7-6]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
		Note: MESOTHELIO MAL IS ON SLIDE 7.	
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
		[Atrophy TGLS = 2-8]	
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 1-21]	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 617

TRT#: 10

SEX: Male

DAY ON TEST: 567

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80212

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 618

TRT#: 10

SEX: Male

DAY ON TEST: 636

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-81114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Clear Cell Focus TGLS = 15-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 14-30]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 12-28]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
Mesentery		Fibrosarcoma	
Note: MESENTERIC FIBROSARCOMA IS ALSO PRESENT ON SLIDES 4 AND 7.			
[Fibrosarcoma TGLS = 10-27]			
* Pancreas	Acinus	Adenoma	
		Atrophy	Moderate
Peritoneum		Mesothelioma Malignant	
* Preputial Gland		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:00
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 618	TRT#: 10	SEX: Male	DAY ON TEST: 636
	DOSE: 5000 PPM(STOP)	DISP: Moribund Sacrifice	HISTO: 97-81114

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic, Mild
[Atrophy TGLS = 2-8]			
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 3-21,4-22,5-23,6-24,7-25,8-26,13-29]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Minimal
[Fibrosis TGLS = 11-6]			
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 1-7]			
* Thymus		Cyst	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH	- Mesentery Fibrosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 619

TRT#: 10

SEX: Male

DAY ON TEST: 384

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Atrophy	Moderate
	Bile Duct	Clear Cell Focus	
	Kupffer Cell	Hyperplasia	Moderate
		Pigmentation	Marked
[Atrophy TGLS = 8-26]			
[Hyperplasia TGLS = 8-26]			
[Pigmentation TGLS = 8-26]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mediastinal	Pigmentation	Moderate
[Pigmentation TGLS = 9-3]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-22]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 7-25]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 619

TRT#: 10

SEX: Male

DAY ON TEST: 384

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78916

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

Multiple

Note: THE FIBROMA ON SLIDE 24 CONTAINS EXTENSIVE ADIPOSE TISSUE.

[Fibroma TGLS = 1-21,3-23,4-24]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Moderate

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 620

TRT#: 10

SEX: Male

DAY ON TEST: 512

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Preputial Gland

OBSERVATIONS

* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
Note: MIXED CELL AND CLEAR CELL FOCI ARE ON SLIDE 23. [Hepatocellular Adenoma TGLS = 7-23]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Moderate
[Hemorrhage TGLS = 2-8]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose		Foreign Body	
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ON SLIDE 7.			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 620

TRT#: 10

SEX: Male

DAY ON TEST: 512

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-79621

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,8-24]			
* Spleen		Fibrosis	Moderate
		Pigmentation	Moderate
[Fibrosis TGLS = 5-22]			
[Pigmentation TGLS = 5-22]			
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tissue NOS		Hemangioma	
[Hemangioma TGLS = 9-25]			
Tooth		Fibroma	
[Fibroma TGLS = 10-9-2]			

PRIMARY CAUSE OF DEATH

-

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 621

TRT#: 10

SEX: Male

DAY ON TEST: 555

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Leiomyoma	
Note: PORTIONS OF THE LEIOMYOMA ARE HEAVILY INFILTRATED WITH EOSINOPHILS.			
[Leiomyoma TGLS = 7-24]			
* Islets, Pancreatic		Pigmentation	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 9-2-1]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 8-27]			
[Pigmentation TGLS = 8-27]			
* Lymph Node, Mesenteric		Ectasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Adenoma	
Peritoneum		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 621

TRT#: 10

SEX: Male

DAY ON TEST: 555

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80128

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MESOTHELIO MAL IS ON SLIDE 7.

* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 2-8]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Fibrosarcoma	Multiple
[Fibroma TGLS = 4-22,10-25,11-26]			
[Fibrosarcoma TGLS = 3-21,5-23]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 6-6]			
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 622

TRT#: 10

SEX: Male

DAY ON TEST: 359

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Osteosarcoma	
	[Osteosarcoma TGLS = 1-21]		
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-22]		
Peritoneum		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 5-23,6-7]		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Mild
* Preputial Gland		Atrophy	Mild
* Salivary Glands		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 7-6]		
* Testes	Germinal Epith	Atrophy	Marked
	[Atrophy TGLS = 4-7]		

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma;Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 623

TRT#: 10

SEX: Male

DAY ON TEST: 555

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Mild
	[Cyst TGLS = 6-24]		
* Liver		Basophilic Focus	
		Cholangiocarcinoma	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 9-6]		
	[Cholangiocarcinoma TGLS = 7-25]		
	[Clear Cell Focus TGLS = 9-6]		
	[Degeneration TGLS = 9-6]		
	[Hepatocellular Carcinoma TGLS = 8-26]		
* Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Pancreas		Atrophy	Mild
Peritoneum		Mesothelioma Malignant	
	Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.		
	[Mesothelioma Malignant TGLS = 4-23]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 623

TRT#: 10

SEX: Male

DAY ON TEST: 555

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80129

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
Note: TGL 1-21 MASS CONTAINS EXTENSIVE AMOUNT OF FATTY TISSUE.			
[Fibroma TGLS = 1-21,2-22]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Cholangiocarcinoma;Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 624

TRT#: 10

SEX: Male

DAY ON TEST: 359

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Infiltration Cellular TGLS = 6-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 4-7]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Moderate
* Preputial Gland		Atrophy	Mild
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	

Note: FIBROSARCOMA CONSIDERED TO BE OF LOW-GRADE MALIGNANCY (ABUNDANT COLLAGEN AND SPARSE CELLULARITY); NESTS OF MATURE SEBACEOUS GLANDS WITHIN FIBROSARCOMA.

[Fibroma TGLS = 1-21]

[Fibrosarcoma TGLS = 3-22]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 624

TRT#: 10

SEX: Male

DAY ON TEST: 359

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78789

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 5-6]	Hematopoietic Cell Proliferation	Moderate
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* Testes Germinal Epith	Atrophy	Marked
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PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Fibrosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 625

TRT#: 10

SEX: Male

DAY ON TEST: 359

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Salivary Glands
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Atypia Cellular	Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosarcoma	
[Fibroma TGLS = 2-22]			
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
[Hematopoietic Cell Proliferation TGLS = 5-6]			
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 625

TRT#: 10

SEX: Male

DAY ON TEST: 359

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-78790

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 626

TRT#: 10

SEX: Male

DAY ON TEST: 691

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 98-81880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Atrophy	Marked
[Atrophy TGLS = 9-8]			
* Skin		Cyst Epithelial Inclusion	
	Subcut Tiss	Fibroma	Multiple
[Cyst Epithelial Inclusion TGLS = 1-27]			
[Fibroma TGLS = 3-21,4-22,6-24,7-25,8-26,15-28]			
* Spleen		Fibrosis	Marked
[Fibrosis TGLS = 11-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 10-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Animal Note: PORTION OF SKIN FIBROMA ALSO SLIDE 6.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 627

TRT#: 10

SEX: Male

DAY ON TEST: 581

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 8-26]			
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
[Cardiomyopathy TGLS = 16-5]			
* Kidney		Nephropathy	Minimal
* Liver		Atrophy	Moderate
		Basophilic Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
Note: TGL 13-30 IS LOCALIZED AREA OF HEPATOCELLULAR ATROPHY CONTAINING LARGE NUMBERS OF HISTIOCYTES.			
[Atrophy TGLS = 13-30]			
[Basophilic Focus TGLS = 11-6]			
[Degeneration TGLS = 11-6]			
[Eosinophilic Focus TGLS = 11-6]			
[Hepatodiaphragmatic Nodule TGLS = 12-29]			
[Infiltration Cellular TGLS = 11-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
[Hyperplasia TGLS = 17-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 627	TRT#: 10	SEX: Male	DAY ON TEST: 581
	DOSE: 5000 PPM(STOP)	DISP: Moribund Sacrifice	HISTO: 97-80254

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal Pancreatic Mediastinal	Hemorrhage Hyperplasia Pigmentation	Moderate Histiocytic, Moderate Mild
[Hemorrhage TGLS = 15-32]			
[Hyperplasia TGLS = 9-27]			
[Pigmentation TGLS = 15-32]			
Mesentery		Fibrosarcoma	
Note: MESENTERIC FIBROSARCOMA IS ALSO PRESENT ON SLIDE 5 ADJACENT TO MESENTERIC LYMPH NODE.			
[Fibrosarcoma TGLS = 14-31]			
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDE 7.			
[Mesothelioma Malignant TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy Inflammation	Marked Chronic, Moderate
[Atrophy TGLS = 5-8]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss Subcut Tiss	Fibroma Lipoma	Multiple
[Fibroma TGLS = 7,18-22+23+25+33]			
[Lipoma TGLS = 6-24]			
* Spleen		Fibrosis	Moderate
Note: FIBROSIS IS ALSO PRESENT ON SLIDE 6.			
[Fibrosis TGLS = 10-28]			
* Testes	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 2-7]			

PRIMARY CAUSE OF DEATH	- Bone Osteosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Mesentery Fibrosarcoma;Peritoneum Mesothelioma Malignant;Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 628

TRT#: 10

SEX: Male

DAY ON TEST: 597

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
[Eosinophilic Focus TGLS = 7-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Peritoneum		Mesothelioma Malignant	
Note: MESOTHELIO MAL IS ALSO PRESENT ON SLIDES 7 AND 7-1.			
[Mesothelioma Malignant TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Minimal
* Preputial Gland		Atrophy	Moderate
[Atrophy TGLS = 3-8]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Lipoma	
[Fibroma TGLS = 4-22,8-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 628

TRT#: 10

SEX: Male

DAY ON TEST: 597

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80493

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 9-24]

* Spleen

Hematopoietic Cell Proliferation

Moderate

[Hematopoietic Cell Proliferation TGLS = 5-6]

* Testes

Germinal Epith

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma;Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 629

TRT#: 10

SEX: Male

DAY ON TEST: 540

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Intestine Small, Ileum	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Diffuse, Mild
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Atypia Cellular	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Dilatation	Moderate
	Transit Epithe	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
		Nephropathy	Mild
* Liver		Clear Cell Focus	
Mesentery			
Note: TGL 8-24 IS A MESENTERIC CYST; MORPHOLOGY NOT AVAILABLE ON TDMS.			
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Mild
[Atrophy TGLS = 4-8]			
* Salivary Glands		Atrophy	Mild
Skeletal Muscle		Hemangioma	
[Hemangioma TGLS = 9-25]			
* Skin	Subcut Tiss	Fibroma	
		Hemangioma	
	Subcut Tiss	Lipoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 629

TRT#: 10

SEX: Male

DAY ON TEST: 540

DOSE: 5000 PPM(STOP)

DISP: Moribund Sacrifice

HISTO: 97-80054

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 2-22]

[Hemangioma TGLS = 3-23]

[Lipoma TGLS = 1-21]

* Spleen

Hematopoietic Cell Proliferation

Marked

[Hematopoietic Cell Proliferation TGLS = 5-6]

* Stomach, Forestomach

Epithelium

Hyperplasia

Minimal

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 6-7]

[Atrophy TGLS = 7-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 630

TRT#: 10

SEX: Male

DAY ON TEST: 92

DOSE: 5000 PPM(STOP)

DISP: Scheduled Sacrifice

HISTO: 96-74828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Atrophy	Marked
		Atypia Cellular	Moderate
		Hyperplasia	Minimal
* Islets, Pancreatic		Degeneration	Hyaline, Mild
* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Mild
* Liver	Hepatocyte		
	[Vacuolization Cytoplasmic TGLS = 5-6]		
	Mesentery	Accessory Spleen	
	[Accessory Spleen TGLS = 3-21]		
* Nose	Olfactory Epi	Degeneration	Moderate
* Preputial Gland		Atrophy	Mild
	[Atrophy TGLS = 1-8]		
* Salivary Glands		Atrophy	Marked
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
	[Congestion TGLS = 4-6]		
	[Hematopoietic Cell Proliferation TGLS = 4-6]		
* Testes	Germinal Epith	Atrophy	Marked
		Mineralization	Mild
	[Mineralization TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Adenoma	
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 4-23]		
* Kidney		Infarct	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Ovary		Cyst	Moderate
* Pancreas		Atrophy	Minimal
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 252

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 3-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
[Angiectasis TGLS = 4-1]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 253

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* 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
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
[Basophilic Focus TGLS = 3-6]			
[Infiltration Cellular TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 2-8]			
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 674

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Stomach, Forestomach

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Minimal Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Moderate
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule Leukemia Mononuclear	
	Centrilobular Kupffer Cell	Necrosis Pigmentation	Mild Mild
[Hepatodiaphragmatic Nodule TGLS = 6-21]			
[Leukemia Mononuclear TGLS = 3-6]			
[Necrosis TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 674

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81867

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Cyst

Moderate

Pars Intermed

Cyst

Moderate

* Spleen

[Leukemia Mononuclear TGLS = 4-6]

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:00

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|--|--------------|-----------------------------|-----------------------------|
| * Clitoral Gland
[Adenoma TGLS = 3-8] | | Adenoma | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney
[Degeneration TGLS = 6-5] | Renal Tubule | Degeneration
Nephropathy | Hyaline, Minimal
Minimal |
| * Liver
[Basophilic Focus TGLS = 5-6] | | Basophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| * Mammary Gland
[Dilatation TGLS = 2-8] | | Dilatation | Minimal |
| Mesentery
[Necrosis TGLS = 4-22] | Fat | Necrosis | Moderate |
| * Spleen | | Pigmentation | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 453

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	Spinal Cord	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-10]			
* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
Note: FOCAL HEMORRHAGE IN BRAIN PARENCHYMA; CONSIDERED SECONDARY TO LEUKEMIA MONUC.			
[Leukemia Mononuclear TGLS = 10-1]			
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-4]			
* Intestine Small, Ileum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Kidney	Renal Tubule	Necrosis	Minimal
* Liver	Kupffer Cell	Leukemia Mononuclear	
	Hepatocyte	Pigmentation	Mild
		Vacuolization Cytoplasmic	Moderate
[Leukemia Mononuclear TGLS = 3-6]			
[Vacuolization Cytoplasmic TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 8-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 453

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79066

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 8-22]

* Lymph Node, Mandibular

Leukemia Mononuclear
Pigmentation

Mild

* Lymph Node, Mesenteric
Mesentery

Fat

Leukemia Mononuclear
Necrosis

Moderate

[Necrosis TGLS = 2-21]

* Pituitary Gland

Pars Distalis

Cyst
Leukemia Mononuclear

Mild

* Spleen

* Stomach, Forestomach

Leukemia Mononuclear
Erosion

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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

OBSERVATIONS

* Heart	Myocardium	Fibrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-2]			
* Lymph Node, Mandibular		Hemorrhage	Mild
		Pigmentation	Moderate
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 1-8]			
* Ovary		Cyst	Moderate
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-21,3-22,4-23]		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Intermed	Cyst	Moderate
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 2

SEX: Female

DAY ON TEST: 620

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Marked
* Liver	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
		[Leukemia Mononuclear TGLS = 3-6]	
		[Vacuolization Cytoplasmic TGLS = 3-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 4-21]	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
[Eosinophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-8,2-21]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-22]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 3-1]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82267

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hydrometra

Moderate

Polyp Stromal

[Hydrometra TGLS = 6-7]

[Polyp Stromal TGLS = 7-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 1-6]			
[Clear Cell Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-2]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 2-3]			
[Pigmentation TGLS = 2-3]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Esophagus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
[Compression TGLS = 4-1]			
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 6-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Fibrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82369

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Fibrosis TGLS = 3-22]

[Leukemia Mononuclear TGLS = 3-22]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 5-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 2-8]			
[Fibroadenoma TGLS = 1-21]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-22]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 6-23]			
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-7-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 98-82268

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 719

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------------------|----------------|-----------------------|---------------------|
| * Bone Marrow | | Infiltration Cellular | Histiocyte, Marked |
| * Clitoral Gland | | Atrophy | Mild |
| * Liver | | Basophilic Focus | |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| [Hyperplasia TGLS = 7-2] | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLS = 1-8,2-21] | | | |
| * Spleen | | Pigmentation | Marked |
| * Stomach, Glandular | | Erosion | Moderate |
| [Erosion TGLS = 8-4] | | | |
| Tooth | | Inflammation | Chronic, Moderate |
| [Inflammation TGLS = 4-9-1] | | Malformation | |
| [Malformation TGLS = 4-9-1] | | | |
| Zymbal's Gland | | Carcinoma | |
| [Carcinoma TGLS = 5-22] | | | |

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 719

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82370

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 266

TRT#: 2

SEX: Female

DAY ON TEST: 706

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Minimal
	[Basophilic Focus TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[Leukemia Mononuclear TGLS = 3-6]		
	[Necrosis TGLS = 4-21]		
* Thymus		Cyst	Moderate
Tooth		Malformation	
	[Malformation TGLS = 6-9]		
* Uterus		Angiectasis	Mild
	[Angiectasis TGLS = 2-7]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 266

TRT#: 2

SEX: Female

DAY ON TEST: 706

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82371

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Tooth Malformation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
Note: INTERSTITIAL CELLS IN AREA OF FATTY DEGENERATION HAVE SPINDLE APPEARANCE. AREA OF FATTY DEGENERATION APPROXIMATES THE MEDULLA.			
* Brain		Compression	Mild
[Compression TGLS = 6-1]			
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Degeneration TGLS = 3-5]			
[Pigmentation TGLS = 3-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:01
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 267	TRT#: 2 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 98-82372
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-1] Skeletal Muscle		Lipoma	
[Lipoma TGLS = 7-21] * Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
Note: MILD SPLENIC HEMORRHAGE; NOT TABULATED. * Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Hydrometra Polyp Stromal	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	Transit Epithe	Hyperplasia Inflammation Nephropathy Basophilic Focus Leukemia Mononuclear	Mild Chronic, Mild Minimal
* Liver			
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular Pigmentation Hyperplasia	Histiocyte, Mild Mild Moderate
* Lymph Node, Mandibular			
* Mammary Gland			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Ovary		Cyst	Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 700

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Marked
[Compression TGLS = 4-1]			
* Clitoral Gland		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
Lacrimal GI			
Note: MINIMAL TUBULAR HYPERTROPHY; NOT TABULATED.			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 1-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 700

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82374

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 2-8]		Fibroadenoma	
[Fibroadenoma TGLS = 4-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 4-22]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------------------|--------|-----------------------|----------------------|
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 2-8] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| [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 |
| * Skin | | Ulcer | Moderate |
| [Ulcer TGLS = 5-21] | | | |
| * Spleen | | Pigmentation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Hydrometra | Moderate |
| | | Hyperplasia | Cystic, Moderate |
| [Hydrometra TGLS = 4-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Int Sm Ileum			
Note: ILEUM IS PRESENT ON SLIDE 3.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Minimal
[Dilatation TGLS = 2-8]			
[Fibroadenoma TGLS = 1-22]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-7]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Mild
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 4-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82272

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Adenoma

[Adenoma TGLS = 6-23]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]		Clear Cell Focus	
[Clear Cell Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-2]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Moderate
* Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 707

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-10]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 7-6]			
* Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Hemorrhage TGLS = 8-2]			
[Infiltration Cellular TGLS = 8-2]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 3-8]			
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Pigmentation	Marked

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Benign

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 707

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82032

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: 98-82377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Ovary	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Marked Diffuse, Marked
[Hyperplasia TGLS = 2-10]			
* Adrenal Medulla		Hyperplasia	Minimal
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Moderate
[Osteopetrosis TGLS = 8-21]			
* Brain			
Note: VACUOLIZATION OF WHITE MATTER IN CEREBELLUM; NOT TABULATED.			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver		Clear Cell Focus Mixed Cell Focus	
[Clear Cell Focus TGLS = 4-6]			
[Mixed Cell Focus TGLS = 4-6]			
* Lung		Hemorrhage Infiltration Cellular	Minimal Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Marked
[Hemorrhage TGLS = 5-5]			
* Mammary Gland		Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82377

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-8]

* Pancreas

Atrophy

Moderate

Note: ATROPHY IS CHARACTERIZED BY VACUOLATED CELLS RESEMBLING LIPOCYTES THROUGHOUT ACINAR PARENCHYMA.

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 9-1]

* Salivary Glands

Atrophy

Marked

Note: ATROPHY CONSISTS OF REPLACEMENT OF PAROTID ACINAR CELLS BY VACUOLATED CELLS RESEMBLING LIPOCYTES.

* Spleen

Hematopoietic Cell Proliferation

Moderate

Pigmentation

Mild

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 6-22 IS EXCESSIVE ADIPOSE TISSUE IN MEDIASTINUM; SITE/MORPHOLOGY NOT AVAILAB LE ON TDMS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hemorrhage	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Dilatation TGLS = 6-8-1]			
[Fibroadenoma TGLS = 1-21,2-22]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: ECTOPIC PARATHYROID GLAND ADJACENT TO THYMUS ON SLIDE 3.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 7-6]		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 2-8]		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 4-1]	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 6-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Bone Marrow | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Skin

OBSERVATIONS

- | | | | |
|------------------------------|-------|----------------------------|-------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Moderate |
| | | Hyperplasia | Diffuse, Moderate |
| [Hyperplasia TGLS = 4-10] | | | |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| | | Pheochromocytoma Benign | |
| * Brain | | Compression | Moderate |
| | | Hydrocephalus | Mild |
| [Compression TGLS = 11-1] | | | |
| * Clitoral Gland | | Carcinoma | |
| Eye | | Inflammation | Chronic, Marked |
| [Inflammation TGLS = 2-22] | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Colon | Crypt | Diverticulum | |
| * Kidney | | Inflammation | Chronic, Moderate |
| | | Nephropathy | Marked |
| [Inflammation TGLS = 10-5] | | | |
| [Nephropathy TGLS = 10-5] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Mixed Cell Focus | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82378

ORGAN AND ACCOUNTABLE SITE STATUS

[Basophilic Focus TGLS = 5-6]

[Clear Cell Focus TGLS = 6-23]

[Hepatodiaphragmatic Nodule TGLS = 7-24]

[Mixed Cell Focus TGLS = 5-6]

* Lung

[Infiltration Cellular TGLS = 8-2,9-2]

Infiltration Cellular

Histiocyte, Mild

* Lymph Node, Mesenteric

Hemorrhage

Minimal

* Mammary Gland

Dilatation

Moderate

Fibroadenoma

Hyperplasia

Mild

[Dilatation TGLS = 3-8]

[Fibroadenoma TGLS = 1-21]

* Pituitary Gland

Pars Distalis

Adenoma

Note: TGL 12-1 APPEARS TO BE A GANGLIOCYTOMA; MORPHOLOGY NOT AVAILABLE ON TDMS AND ENTERED AS "CARCINOMA" WITH NO SITE DESIGNATED.

[Adenoma TGLS = 12-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

Ulcer

Moderate

* Stomach, Glandular

Ulcer

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Eosinophilic Focus TGLS = 3-22]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 4-2]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
		Hyperplasia	Mild
[Dilatation TGLS = 1-8]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
Eye		Hypertrophy	Focal, Minimal
		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-22]			
* Pituitary Gland	Pars Intermed	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 283

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 98-82381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
[Infiltration Cellular TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 4-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 283

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82381

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Blood Vessel | * 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 | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------|------------------|
| * Adrenal Cortex | | Adenoma | |
| * Bone Marrow | | Myelofibrosis | Marked |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Leukemia Mononuclear | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Dilatation | Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLS = 1-21] | | |
| * Spleen | | Leukemia Mononuclear | |
| | Note: TGL 2-22 IS A LARGE LYMPHOHISTIOCYTIC AGGREGATION; NOT TABULATED. | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Leukemia Mononuclear	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule Renal Tubule	Degeneration Pigmentation	Hyaline, Minimal Minimal
	[Pigmentation TGLS = 3-5]		
* Liver		Basophilic Focus Leukemia Mononuclear	
	[Basophilic Focus TGLS = 4-6]		
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal Mediastinal	Leukemia Mononuclear Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 7-3]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation Fibroadenoma	Minimal

Note: FIBROADENOMA IS INFILTRATED WITH LEUKEMIA MONUC CELLS.

[Fibroadenoma TGLS = 1-21]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82382

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary	Leukemia Mononuclear
* Spleen	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 5-6]	
* Urinary Bladder	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
		Cyst	Moderate
[Cyst TGLS = 6-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 3-21]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
Note: FOCUS OF HYPERPLASIA CONTAINS ELONGATED, VACUOLATED CELLS SHOWING SOME PALISADING.			
[Adenoma TGLS = 7-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82383

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland
[Adenoma TGLS = 8-3]

C Cell

Pigmentation
Adenoma

Mild

* Uterus

Inflammation
Polyp Stromal

Chronic, Marked

Note: TGL 1 IS AN ENCAPSULATED ABSCESS.

[Inflammation TGLS = 1-7]

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 2

SEX: Female

DAY ON TEST: 691

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-81868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear	Fatty, Marked
* Adrenal Medulla		Hyperplasia Leukemia Mononuclear	Moderate
* Clitoral Gland		Cyst Hyperplasia Inflammation	Marked Mild Chronic, Moderate
[Cyst TGLS = 1-8]			
* Kidney	Renal Tubule	Degeneration Leukemia Mononuclear	Hyaline, Moderate
[Leukemia Mononuclear TGLS = 5-5]			
* Liver	Hepatocyte	Clear Cell Focus Leukemia Mononuclear Vacuolization Cytoplasmic	Marked
[Leukemia Mononuclear TGLS = 6-6]			
[Vacuolization Cytoplasmic TGLS = 6-6]			
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287	TRT#: 2 DOSE: 0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 691 HISTO: 98-81868
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ORGAN AND ACCOUNTABLE SITE STATUS			
	Pars Distalis	Cyst Leukemia Mononuclear	Moderate
[Adenoma TGLS = 7-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 8-21]			

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
-------------------------------	-------------------------------

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 288

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Mild
* Lymph Node, Mandibular		Dilatation	Minimal
* Mammary Gland			
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
		Hyperplasia	Diffuse, Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Hydrocephalus	Minimal
		Leukemia Mononuclear	
Note: HEMORRHAGE ASSOCIATED WITH TGL 10-1 NOT TABULATED.			
			[Leukemia Mononuclear TGLS = 10-1]
Eye	Retina	Degeneration	Moderate
		Hemorrhage	Moderate
			[Hemorrhage TGLS = 12-44]
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Necrosis	Moderate
		Nephropathy	Minimal
			[Leukemia Mononuclear TGLS = 5-5]
			[Necrosis TGLS = 5-5]
* Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
			[Necrosis TGLS = 7-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82276

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
	[Leukemia Mononuclear TGLS = 8-3]		
	[Pigmentation TGLS = 8-3]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-5]		
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
	[Dilatation TGLS = 2-8]		
	[Fibroadenoma TGLS = 1-21]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-22]		
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Hyperplasia	Focal, Marked
		Leukemia Mononuclear	
	[Angiectasis TGLS = 11-1]		
	[Hyperplasia TGLS = 11-1]		
	[Leukemia Mononuclear TGLS = 11-1]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular		Ulcer	Marked
	[Ulcer TGLS = 13-4]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 290

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Moderate
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 2-22]			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 291

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 6-6]			
[Hepatodiaphragmatic Nodule TGLS = 7-23]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-8,3-21]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 5-22]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-7]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 292

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Moderate
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 4-22]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 3-2]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pancreas		Atrophy	Minimal
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 293

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 294

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
	[Dilatation TGLS = 1-8]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 2-7]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-1]		
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Heart	* Intestine Large, Rectum
* 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

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
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OBSERVATIONS

* Brain [Compression TGLS = 4-1]		Compression	Moderate
* Clitoral Gland		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver [Basophilic Focus TGLS = 2-6] [Hepatodiaphragmatic Nodule TGLS = 5-21]		Basophilic Focus Hepatodiaphragmatic Nodule Leukemia Mononuclear	
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear Pigmentation	Mild
* Mammary Gland [Dilatation TGLS = 1-8]		Dilatation	Mild
* Pituitary Gland [Adenoma TGLS = 3-1]	Pars Intermed	Adenoma	
* Spleen		Leukemia Mononuclear Pigmentation	Moderate

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

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 732

HISTO: 98-82247

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 620

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Nose	* Ovary	* Parathyroid Gland	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Leukemia Mononuclear TGLS = 3-5,9-5]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Marked
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 7-2]		
	[Infiltration Cellular TGLS = 7-2]		
	[Leukemia Mononuclear TGLS = 7-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-22]		
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 620

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81055

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Accessory Spleen TGLS = 1-21]		Accessory Spleen	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
		Leukemia Mononuclear	
[Cyst TGLS = 8-1]			
* Salivary Glands		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
Note: FORESTOMACH EPITHELIAL HYPERPLASIA IS ALSO PRESENT ON SLIDE 4. [Hyperplasia TGLS = 10-4-1]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 297

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 3-1]			
* Kidney	Renal Tubule	Degeneration Nephropathy Basophilic Focus Clear Cell Focus Mixed Cell Focus	Hyaline, Mild Minimal
* Liver			
[Basophilic Focus TGLS = 5-6]			
[Mixed Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation Fibroadenoma	Mild
[Dilatation TGLS = 2-8]			
[Fibroadenoma TGLS = 1-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 298

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* 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, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Leukemia Mononuclear	Focal, Minimal
[Leukemia Mononuclear TGLS = 4-10]			
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Mild
Lymph Node	Mediastinal Mediastinal	Leukemia Mononuclear Pigmentation	Mild
[Leukemia Mononuclear TGLS = 6-3]			
[Pigmentation TGLS = 6-3]			
* Lymph Node, Mandibular		Ectasia Leukemia Mononuclear	Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 298

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82390

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Cyst

Moderate

[Angiectasis TGLS = 7-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 2

SEX: Female

DAY ON TEST: 401

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-78940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Dilatation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
* Uterus		Inflammation	Chronic, Marked

Note: EXTENSIVE STROMAL AND GLANDULAR HYPERPLASIA AND MODERATE NECROSIS ASSOCIATED WITH INFLAMMATION; NOT TABULATED.

[Inflammation TGLS = 1-23]

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 2

SEX: Female

DAY ON TEST: 719

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-1]			
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-22,7-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			
[Leukemia Mononuclear TGLS = 8-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
		Hyperplasia	Mild
[Dilatation TGLS = 2-8]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
[Hyperplasia TGLS = 11-1]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 719

HISTO: 98-82391

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-6]

[Necrosis TGLS = 3-6]

* Urinary Bladder

Note: HEMORRHAGE IN URINARY BLADDER WALL CONSIDERED SECONDARY TO LEUKEMIA MONUC.

[Leukemia Mononuclear TGLS = 4-8]

Necrosis

Moderate

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Clitoral Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 301

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Blood Vessel | * 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

- | | | | |
|--|-----------|----------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Moderate |
| | Bile Duct | Hepatodiaphragmatic Nodule | |
| | | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| Note: MIXED CELLULAR INFILTRATE IS MOST VISIBLE ON SLIDE 21. | | | |
| [Angiectasis TGLS = 3-21] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 4-22] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 5-8] | | | |
| * Spleen | | Pigmentation | Mild |
| * Uterus | | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLS = 2-7] | | | |
| Vagina | | Leiomyoma | |
| [Leiomyoma TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 302

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* 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	Degeneration Nephropathy	Hyaline, Mild Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus Clear Cell Focus Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 6-22]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
	[Hemorrhage TGLS = 4-5]		
* Mammary Gland		Dilatation	Moderate
	[Dilatation TGLS = 1-8]		
* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
	[Leukemia Mononuclear TGLS = 2-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hemorrhage	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
[Angiectasis TGLS = 5-1]			
* Spleen		Pigmentation	Moderate
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 304

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [Adenoma TGLS = 2-8]		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Mammary Gland [Dilatation TGLS = 1-8]		Dilatation	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Carcinoma	
* Uterus [Hyperplasia TGLS = 3-7]		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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		

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Angiectasis	Minimal
	Basophilic Focus	
	Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]		
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular	Pigmentation	Mild
* Mammary Gland	Dilatation	Mild
[Dilatation TGLS = 1-8]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Minimal
* Uterus	Polyp Stromal	
[Polyp Stromal TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 306

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 98-82397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]		Hyperplasia	Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 307

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 6-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 308

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Nose	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 309

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 98-82399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
	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]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 3-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 310

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Leukemia Mononuclear	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Kidney	Renal Tubule	Degeneration Leukemia Mononuclear	Hyaline, Moderate
	Renal Tubule	Nephropathy Pigmentation	Minimal Moderate
[Leukemia Mononuclear TGLS = 9-5]			
[Pigmentation TGLS = 9-5]			
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
	Kupffer Cell	Pigmentation Regeneration	Moderate Focal, Moderate
[Leukemia Mononuclear TGLS = 5-6]			
[Regeneration TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Moderate
[Leukemia Mononuclear TGLS = 7-3]			
[Pigmentation TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 310

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82400

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Mammary Gland

Dilatation

Minimal

Fibroadenoma

[Fibroadenoma TGLS = 3-21]

* Pituitary Gland

Pars Distalis

Angiectasis

Minimal

Pars Distalis

Hyperplasia

Focal, Mild

[Angiectasis TGLS = 8-1]

[Hyperplasia TGLS = 8-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

Leukemia Mononuclear

[Hematopoietic Cell Proliferation TGLS = 4-6]

[Leukemia Mononuclear TGLS = 4-6]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 2-8]			
Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1-21]			
* Liver		Basophilic Focus	
		Sarcoma	
Note: ORIGIN OF SARCOMA IS UNCERTAIN; ASSUMED TO BE LIVER.			
[Basophilic Focus TGLS = 7-6]			
[Sarcoma TGLS = 8-6]			
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Mild
		Sarcoma	Metastatic (Liver)
[Hemorrhage TGLS = 9-2]			
[Sarcoma TGLS = 9-2,12-26]			
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 3-22,4-23,5-24,6-25]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82491

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Mild
[Compression TGLS = 6-1]			
* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLS = 2-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
		Hyperplasia	Moderate
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82492

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 625 PPM

DISP: Natural Death

HISTO: 98-81869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Rectum	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	* Uterus

OBSERVATIONS

* Clitoral Gland	Atrophy	Mild
* Lung	Infiltration Cellular	Histiocyte, Mild
* Mammary Gland	Fibroadenoma	Multiple

[Fibroadenoma TGLS = 1-21,2-22]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Necrosis	Focal, Minimal
[Basophilic Focus TGLS = 6-6]			
[Clear Cell Focus TGLS = 6-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-25]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22,2-23.4-24]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Intermed	Adenoma	
[Adenoma TGLS = 7-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Nephropathy	Moderate Fatty, Mild Focal, Mild Minimal
* Kidney		Basophilic Focus Clear Cell Focus Mixed Cell Focus	
* Liver			
[Basophilic Focus TGLS = 5-6] [Clear Cell Focus TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Moderate Histiocyte, Minimal
[Hyperplasia TGLS = 6-23]			
* Mammary Gland		Fibroadenoma Hyperplasia	Multiple Mild
[Fibroadenoma TGLS = 1-21,2-22] [Hyperplasia TGLS = 3-8]			
* Saliv Glands			
Note: SMALL FOCUS OF ATROPHY IN PAROTID GLAND; NOT TABULATED.			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLS = 6-6]		
	[Eosinophilic Focus TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	Multiple
	[Dilatation TGLS = 2-8]		
	[Fibroadenoma TGLS = 1-21,3-22,4-23,5-24,8-25]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adren Cortex			
Note: TGL 10-4 IS A CYST THAT APPARENTLY HAS OBLITERATED ALL RECOGNIZABLE ADRENAL GLAND STRUCTURE; "CYST" NOT AVAILABLE AS MORPHOLOGY ON TDMS.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 5-6]		
	[Clear Cell Focus TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	Multiple
	[Dilatation TGLS = 1-8]		
	[Fibroadenoma TGLS = 8-21,9-22]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[Adenoma TGLS = 2-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 7-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82495

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 582

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-80466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Liver	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain [Hydrocephalus TGLS = 2-1]		Hydrocephalus	Moderate
* Clitoral Gland		Atrophy	Mild
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland [Dilatation TGLS = 1-8]		Dilatation	Moderate
* Pituitary Gland [Adenoma TGLS = 3-1]	Pars Distalis	Adenoma	
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus [Polyp Stromal TGLS = 5-7]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLS = 4-6]		
	[Eosinophilic Focus TGLS = 4-6]		
	[Hepatodiaphragmatic Nodule TGLS = 5-22]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
		Hyperplasia	Marked
	[Dilatation TGLS = 2-8]		
	[Fibroadenoma TGLS = 1-21]		
	[Hyperplasia TGLS = 2-8]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 3-7]		
* Pancreas	Acinus	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82496

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 6-1]

Pars Distalis

Adenoma

* Spleen

Pigmentation

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Hydrometra

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Uterus			

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-21,4-22,5-23]			
[Hyperplasia TGLS = 3-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Brain
* 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			

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hemorrhage	Mild
		Mixed Cell Focus	
		[Basophilic Focus TGLS = 6-6]	
		[Clear Cell Focus TGLS = 6-6]	
		[Mixed Cell Focus TGLS = 6-6]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
		[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24]	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82498

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 5-6 IS MODERATE RED PULP CONGESTION; NOT TABULATED ON TDMS.

* Uterus

Hydrometra

Mild

[Hydrometra TGLS = 7-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Renal Tubule	Nephropathy	Minimal
	[Pigmentation TGLS = 3-5]	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 4-6]		
	[Clear Cell Focus TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Minimal
	[Dilatation TGLS = 1-8]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	Follicle	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82499

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 4-6]		
	[Clear Cell Focus TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	[Dilatation TGLS = 1-8]		
	[Fibroadenoma TGLS = 2-21,3-22]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	Moderate
	[Angiectasis TGLS = 5-1]		
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Thyroid Gland	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Minimal
		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Mild
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-7]			
* 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: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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

OBSERVATIONS

* Adrenal Cortex		Carcinoma	
Note: TGL 6-10 CONSIDERED TO BE MILD COMPENSATORY CORTICAL ATROPHY SECONDARY TO CARCINOMA IN CONTRALATERAL GLAND; NOT TABULATED.			
[Carcinoma TGLS = 5-10]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Carcinoma	Metastatic (Adrenal Cortex)
		Clear Cell Focus	
		Eosinophilic Focus	
		Regeneration	Focal, Mild
[Carcinoma TGLS = 7-6]			
[Eosinophilic Focus TGLS = 7-6]			
[Regeneration TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 2-21,3-22]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Spleen		Carcinoma	Metastatic (Adrenal Cortex)
		Congestion	Moderate
		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82503

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC IS IN EARLY STAGE.

[Congestion TGLS = 4-6]

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Uterus

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
[Osteopetrosis TGLS = 8-24]			
* Brain		Compression	Mild
[Compression TGLS = 6-1]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	Multiple
		Hyperplasia	Mild
Note: FIBROADENOMA ON SLIDE 21 HAS AREAS OF ANAPLASIA (POSSIBLE EARLY CARCINOMATOUS TRANSFORMATION).			
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21,3-22]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82504

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin
[Fibroma TGLS = 4-23]

Subcut Tiss

Fibroma

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Heart	Myocardium	Fibrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
Note: CLEAR CL FOCUS IN ON SLIDE 22.			
[Basophilic Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 2-22]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82505

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 4-23 IS A NORMAL-APPEARING PANCREATIC LYMPH NODE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 669

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Diffuse, Mild
* Brain		Compression	Marked
[Compression TGLS = 5-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Basophilic Focus TGLS = 8-6]			
[Vacuolization Cytoplasmic TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-2]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-21,3-22,9-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 669

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81870

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Pigmentation

Moderate

Hyperplasia

Mild

Ulcer

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia Infiltration Cellular	Mild Histiocyte, Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Hepatodiaphragmatic Nodule Hyperplasia	
	Bile Duct		Minimal
	[Basophilic Focus TGLS = 5-6]		
	[Hepatodiaphragmatic Nodule TGLS = 4-23]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation Fibroadenoma Hyperplasia	Mild Multiple Moderate
	[Fibroadenoma TGLS = 1-21,3-22]		
	[Hyperplasia TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[Adenoma TGLS = 7-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82506

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland
[Carcinoma TGLS = 6-3]

C Cell

Pigmentation
Carcinoma

Mild

* Uterus

Hydrometra

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 716

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Marked
		Hydrocephalus	Moderate
[Compression TGLS = 6-1]			
[Hydrocephalus TGLS = 8-1]			
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Moderate
[Clear Cell Focus TGLS = 5-23]			
[Hepatodiaphragmatic Nodule TGLS = 5-23]			
[Infiltration Cellular TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	Multiple
[Dilatation TGLS = 2-8]			
[Fibroadenoma TGLS = 1-21,3-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 716

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82210

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
	[Osteopetrosis TGLS = 8-25]		
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Marked
	[Fibroadenoma TGLS = 1-21,3-23,4-24]		
	[Hyperplasia TGLS = 2-22]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 5-7]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[Adenoma TGLS = 9-1]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82507

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 705

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain		Compression	Marked
Note: TGL 8-1 APPARENTLY IS A FOCUS OF AMPHOPHILIC, LAMINATED CONCRETIONS WITHIN NEUROPIIL OF CEREBRUM; NOT TABULATED.			
		[Compression TGLS = 9-1]	
Eye		Inflammation	Chronic, Marked
		[Inflammation TGLS = 1-21]	
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		[Basophilic Focus TGLS = 11-6]	
		[Eosinophilic Focus TGLS = 11-6]	
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Mild
		[Alveolar/Bronchiolar Adenoma TGLS = 7-2]	
* Lymph Node, Mandibular		Hemorrhage	Moderate
		Pigmentation	Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Marked
		[Fibroadenoma TGLS = 2-22,3-23,4-24]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 705

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-81948

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 6-8]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 10-1]

* Spleen

Pigmentation

Moderate

* Thyroid Gland

Follicle

Cyst

Moderate

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 495

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
[Angiectasis TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Cyst	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22,6-23]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Minimal
* 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]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Note: FOCUS OF HYPERPLASIA CONTAINS CELLS WITH ENLARGED AND/OR VACUOLATED CYTOPLASM AND ENLARGED OR ELONGATED NUCLEI.			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 695

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Esophagus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Pigmentation	Minimal
	[Pigmentation TGLS = 5-5]		
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
	[Basophilic Focus TGLS = 2-6]		
	[Eosinophilic Focus TGLS = 2-6]		
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-2]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	Note: THE FIBROADENOMA ON SLIDE 21 IS HEAVILY INFILTRATED WITH LEUKEMIA MONUC.		
	[Fibroadenoma TGLS = 6-21]		
	[Hyperplasia TGLS = 1-8]		
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 695

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82510

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Mild

* Spleen

Leukemia Mononuclear

* Thymus

Leukemia Mononuclear

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-3]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-21,2-22,6-23]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
	[Hyperplasia TGLS = 5-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hyperplasia	Cystic, Moderate
		Inflammation	Chronic, Moderate
	[Hyperplasia TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 4-22]		
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 2-6]		
	[Clear Cell Focus TGLS = 2-6]		
	[Mixed Cell Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	Moderate
	[Adenoma TGLS = 3-1]		
* Skin	Pinna	Melanoma Malignant	
	[Melanoma Malignant TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 6-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Clear Cell Focus TGLS = 4-6]		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 9-21]		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 2-1]	Pars Intermed	Cyst	Moderate
* Uterus		Hydrometra	Mild
[Polyp Stromal TGLS = 3-7,8-7-1]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 531

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Brain		Compression	Marked
		Hydrocephalus	Moderate
[Compression TGLS = 2-1]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
		Hyperplasia	Minimal
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Cyst	Marked
		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Ovary		Cyst	Moderate
Note: CIRCUMSCRIBED AREAS IN BOTH OVARIES OF LYMPHOHISTIOCYTIC CELLS; NOT TABULATED ON TDMS.			
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 4-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 9-6]			
[Mixed Cell Focus TGLS = 9-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21,3-22,5-23,6-24,7-25]			
[Hyperplasia TGLS = 10-8]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Moderate
[Adenoma TGLS = 8-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82515

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 708

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Uterus	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Carcinoma	
		Cyst	Marked
[Carcinoma TGLS = 3-23]			
[Cyst TGLS = 10-8]			
* Kidney	Renal Tubule	Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
		Regeneration	Focal, Moderate
[Leukemia Mononuclear TGLS = 6-6]			
[Regeneration TGLS = 7-24]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 708

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82033

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-21,2-22]		Hyperplasia	Moderate
* Pituitary Gland [Cyst TGLS = 9-1]	Pars Distalis	Cyst	Moderate
* Spleen [Leukemia Mononuclear TGLS = 5-6]		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		
CONTRIBUTORY CAUSE OF DEATH	- Clitoral Gland Carcinoma; Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Cardiomyopathy	Fatty, Moderate Focal, Moderate Minimal
* Heart		Nephropathy	Minimal
* Kidney		Basophilic Focus Clear Cell Focus Infiltration Cellular	Minimal Mixed Cell, Minimal
[Basophilic Focus TGLS = 5-6] [Clear Cell Focus TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Mild Histiocyte, Minimal
[Infiltration Cellular TGLS = 8-2]			
Lymph Node	Mediastinal Mediastinal	Hemorrhage Pigmentation	Moderate Moderate
[Hemorrhage TGLS = 7-3] [Pigmentation TGLS = 7-3]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-21]			
* Ovary		Granulosa-Theca Tumor Malignant	
[Granulosa-Theca Tumor Malignant TGLS = 6-7]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82516

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-1]

* Spleen

Pigmentation

Minimal

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 9-3]

* Uterus

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346	TRT#: 4 DOSE: 625 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 98-82517
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Uterus	

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		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	Multiple
		Hyperplasia	Minimal
		[Fibroadenoma TGLS = 1-21,2-22]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Cranium	Osteopetrosis	Moderate
[Osteopetrosis TGLS = 6-23]			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 10-24]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Pigmentation	Mild
[Leukemia Mononuclear TGLS = 5-8]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 3-22,4-8]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82518

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 9-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Mild
Note: CHRONIC INFLAMMATION CONSISTS ON FOCUS OF PIGMENT-CONTAINING MACROPHAGES.			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 8-6]			
[Hepatodiaphragmatic Nodule TGLS = 6-25]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Galactocele	Marked
[Dilatation TGLS = 5-8]			
[Fibroadenoma TGLS = 2-22,3-23,4-24]			
[Galactocele TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	Moderate
[Angiectasis TGLS = 7-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82519

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 429

DOSE: 625 PPM

DISP: Natural Death

HISTO: 97-79030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-21]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Perforation	

Note: PORTION OF SPLEEN ADHERED TO FORESTOMACH WALL, APPARENTLY RESULTING FROM PERFORATION.

[Perforation TGLS = 3-4]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Bone	Femur	Osteopetrosis	Mild
* Brain		Compression	Marked
		Hydrocephalus	Mild
[Compression TGLS = 9-1]			
* Clitoral Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21,4-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-1]			
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82520

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 2-21]

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 8-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 351

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Ectasia	Mild
		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
	[Dilatation TGLS = 2-8]	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Intermed	Angiectasis	Mild
	[Angiectasis TGLS = 4-1]		
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 353

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Mixed Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Dilatation TGLS = 2-8]			
[Fibroadenoma TGLS = 1-21,3-22,4-23,7-24]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLS = 2-44,3-44]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
	[Basophilic Focus TGLS = 7-6]		
	[Hepatodiaphragmatic Nodule TGLS = 6-22]		
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Moderate
	[Dilatation TGLS = 8-8]		
	[Fibroadenoma TGLS = 1-21]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 4-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82307

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Pigmentation

Moderate

* Uterus

Hydrometra

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 355

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 6-24]		
* Bone Marrow		Hyperplasia	Mild
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Mild
	Note: CLEAR CL FOCUS IS ON SLIDE 23		
	[Angiectasis TGLS = 5-23]		
	[Basophilic Focus TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
	[Hyperplasia TGLS = 4-2]		
	[Infiltration Cellular TGLS = 4-2]		
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-21,2-22]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 355

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82308

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* 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	Vagina	

MISSING

* Thymus

INSUFFICIENT TISSUE

* Esophagus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Moderate
[Compression TGLS = 2-1]			
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 4-8]			
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 7-6]			
[Clear Cell Focus TGLS = 7-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLS = 5-21,6-22]			
[Hyperplasia TGLS = 5-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82523

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 3-1]

Pars Distalis

Adenoma

* Spleen

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 357

TRT#: 4

SEX: Female

DAY ON TEST: 684

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-81817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22]		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen	Lymph Follic	Atrophy	Moderate
[Atrophy TGLS = 7-6]		Pigmentation	Moderate
* Stomach, Glandular		Erosion	Marked
[Erosion TGLS = 9-4]			

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	Multiple
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21,3-22]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-23]			
* Nose		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 5-24]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 9-26]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	Multiple
		Hyperplasia	Minimal
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21,4-23]			
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	Moderate
[Angiectasis TGLS = 7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82525

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin
[Fibroma TGLS = 3-22]

Subcut Tiss

Fibroma

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy	Fatty, Mild Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Compression	Moderate
[Compression TGLS = 10-1-1]			
* Kidney	Renal Tubule	Degeneration Nephropathy Pigmentation	Hyaline, Mild Minimal Minimal
	Renal Tubule	Basophilic Focus Leukemia Mononuclear	
* Liver			
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Multiple Histiocyte, Minimal
Note: ALV BRON ADEN ON SLIDES 2 AND 2-1.			
[Alveolar/Bronchiolar Adenoma TGLS = 7-2-1]			
[Infiltration Cellular TGLS = 8-2]			
* Lymph Node, Mandibular		Ectasia Leukemia Mononuclear Pigmentation	Mild Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma Hyperplasia	Multiple Moderate
[Fibroadenoma TGLS = 1-21,2-22,4-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82309

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-8]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 9-1]

* Salivary Glands

Atrophy

Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-6]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 361

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Moderate
	[Osteopetrosis TGLS = 6-25]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 8-6]		
	[Clear Cell Focus TGLS = 8-6]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24]		
	[Hyperplasia TGLS = 5-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 362

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLS = 6-6]		
	[Hepatodiaphragmatic Nodule TGLS = 9-26]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24]		
	[Hyperplasia TGLS = 5-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[Adenoma TGLS = 7-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 4-8]			
* Intestine Large, Cecum		Edema	Mild
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 8-24]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
[Hepatodiaphragmatic Nodule TGLS = 6-23]			
[Mixed Cell Focus TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Pigmentation	Mild
[Hemorrhage TGLS = 7-5]			
[Pigmentation TGLS = 7-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82312

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland

Dilatation

Mild

Fibroadenoma

Multiple

[Dilatation TGLS = 2-8]

[Fibroadenoma TGLS = 1-21,3-22]

* Pancreas

Atrophy

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 9-1]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Minimal

Zymbal's Gland

Carcinoma

[Carcinoma TGLS = 10-25]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 6-6]		
	[Mixed Cell Focus TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Marked
	[Fibroadenoma TGLS = 2-22,3-23,4-24]		
	[Hyperplasia TGLS = 1-21,5-8]		
* Pituitary Gland			
	Note: A FEW HEMOSIDERIN-CONTAINING MACROPHAGES IN PARS DISTALIS; NOT TABULATED.		
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 365

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Rectum [Polyp Adenomatous TGLS = 4-4]		Polyp Adenomatous	
* Kidney		Inflammation	Chronic, Minimal
* Liver [Basophilic Focus TGLS = 3-6] [Clear Cell Focus TGLS = 3-6]		Basophilic Focus Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland [Fibroadenoma TGLS = 1-21] [Hyperplasia TGLS = 2-8]		Infiltration Cellular Fibroadenoma Hyperplasia	Histiocyte, Minimal Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 366

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 4-8]			
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 8-6]		Hematopoietic Cell Proliferation	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 6-21]		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8,7-22]			
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus		Sarcoma Stromal	
[Sarcoma Stromal TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 4

SEX: Female

DAY ON TEST: 702

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 98-82408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Marked
[Compression TGLS = 3-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 368

TRT#: 4

SEX: Female

DAY ON TEST: 505

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 97-79622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|--|--------|----------------------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Marked |
| * Clitoral Gland | | Carcinoma | |
| Note: PORTION OF CLITORAL GL CARCINOMA IS ON SLIDE 8-1.
[Carcinoma TGLS = 2-22] | | | |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Hematopoietic Cell Proliferation | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLS = 3-6] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

- Clitoral Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Clitoral Gland		Cyst	Moderate
[Cyst TGLS = 4-8]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 6-6]		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
		Hemorrhage	Minimal
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
[Dilatation TGLS = 3-8]		Hyperplasia	Minimal
[Fibroadenoma TGLS = 2-22]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: TISSUE ON SLIDE 21 IS NORMAL-APPEARING SKELETAL MUSCLE AND ADIPOSE TISSUE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 370

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 98-82528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 1-6]		
	[Clear Cell Focus TGLS = 1-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 525

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Islets, Pancreatic [Carcinoma TGLS = 6-22]	Carcinoma	
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
* Lung [Hemorrhage TGLS = 7-2]	Hemorrhage	Marked
* Lymph Node, Mandibular	Pigmentation	Mild
* Lymph Node, Mesenteric	Hemorrhage	Mild
* Mammary Gland Note: MAMMARY FIBROADENOMA ALSO ON SLIDE 8. [Fibroadenoma TGLS = 1-21]	Fibroadenoma	
* Spleen	Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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		Accessory Adrenal Cortical Nodule	Moderate
		Hypertrophy	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
[Dilatation TGLS = 3-8]			
[Fibroadenoma TGLS = 1-21,2-22]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
[Angiectasis TGLS = 5-1]			
[Hyperplasia TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow

Note: LOCALIZED AREA OF ANGIECTASIS IN MARROW; NOT TABULATED.

* Kidney

Cyst
Nephropathy
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Hepatodiaphragmatic Nodule

Moderate
Minimal

* Liver

[Basophilic Focus TGLS = 4-6]
[Clear Cell Focus TGLS = 4-6]
[Eosinophilic Focus TGLS = 4-6]
[Hepatodiaphragmatic Nodule TGLS = 5-23]

* Lung

[Infiltration Cellular TGLS = 6-2]

Infiltration Cellular

Histiocyte, Mild

* Mammary Gland

[Fibroadenoma TGLS = 1-21,2-22]

Dilatation
Fibroadenoma

Mild
Multiple

* Pituitary Gland

[Cyst TGLS = 7-1]

Pars Distalis

Cyst

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82034

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Esophagus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLS = 8-6]		
	[Clear Cell Focus TGLS = 8-6]		
	[Hepatodiaphragmatic Nodule TGLS = 9-24]		
* Lung	Alveolar Epith	Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	[Dilatation TGLS = 1-8]		
	[Fibroadenoma TGLS = 3-22,4-23]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-1]		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 2-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82463

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Moderate

* Uterus

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Atrophy	Moderate
		Cyst	Moderate
[Cyst TGLS = 1-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 5-3]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Inflammation	Moderate Fatty, Minimal Chronic, Mild
* Clitoral Gland [Inflammation TGLS = 1-8]			
* Kidney		Nephropathy	Minimal
* Liver [Basophilic Focus TGLS = 5-6] [Clear Cell Focus TGLS = 5-6]		Basophilic Focus Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland [Fibroadenoma TGLS = 2-21,3-22]		Dilatation Fibroadenoma Hyperplasia	Mild Multiple Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82465

ORGAN AND ACCOUNTABLE SITE STATUS

[Hydrometra TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 3-8]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Ovary	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
		Necrosis	Focal, Minimal
	[Basophilic Focus TGLS = 4-6]		
	[Mixed Cell Focus TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	[Fibroadenoma TGLS = 5-21,7-23,8-24]		
	[Hyperplasia TGLS = 1-8]		
* Nose		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[Adenoma TGLS = 2-1]		
* Salivary Glands		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82467

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin
[Fibroma TGLS = 6-22]

Subcut Tiss

Fibroma

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 7-25]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 6-6]		
	[Clear Cell Focus TGLS = 6-6]		
	[Mixed Cell Focus TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	Note: EXTENSIVE INTERSTITIAL FIBROSIS ASSOCIATED WITH HYPERPLASTIC MAMMARY GLAND.		
	[Fibroadenoma TGLS = 1-21,2-22]		
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Intermed	Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:01
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 379	TRT#: 6	SEX: Female	DAY ON TEST: 734
	DOSE: 1250 PPM	DISP: Terminal Sacrifice	HISTO: 98-82468

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 3-23]

* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Mild
* Uterus	Polyp Stromal	

Note: TGL 5-7 IS MODERATE DILATATION, WHICH APPARENTLY REPRESENTS THE UTERINE INTUSSUSCEPTION.

Note: THE UTERINE STROMAL POLYP HAD APPARENTLY PROLAPSED INTO THE VAGINA.

[Polyp Stromal TGLS = 4-24]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Clitoral Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 3-8]			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 6-6]			
[Clear Cell Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 7-2]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-21,8-25]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-23,5-24]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82469

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 2-22]	Subcut Tiss	Fibroma	
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 381

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Marked
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
	Hepatocyte	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]		Vacuolization Cytoplasmic	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21,2-22]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Glandular		Ulcer	Mild
[Ulcer TGLS = 6-4]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 586

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: TGL 3-22 IS PANCREATIC LYMPH NODE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Renal Tubule	Nephropathy	Minimal
	[Pigmentation TGLS = 7-5]	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLS = 6-6]		
	[Eosinophilic Focus TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	Multiple
	[Dilatation TGLS = 4-8]		
	[Fibroadenoma TGLS = 2-21,3-22]		
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Carcinoma	
	[Carcinoma TGLS = 5-3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone	Femur	Osteopetrosis	Mild
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
[Carcinoma TGLS = 6-24]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22,3-23]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-7]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 7-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 5-3]			
* Urinary Bladder		Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82471

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Clitoral Gland		Carcinoma	
		Cyst	Marked
[Carcinoma TGLS = 1-8]			
[Cyst TGLS = 1-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Necrosis	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
[Dilatation TGLS = 3-8]			
[Fibroadenoma TGLS = 2-21,4-22]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82472

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:01

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 386

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,3-23,4-24,7-25]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 6-1]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Nephropathy	Moderate Fatty, Mild Focal, Mild Minimal
* Kidney		Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatodiaphragmatic Nodule	
* Liver			
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 5-23]			
[Hepatodiaphragmatic Nodule TGLS = 7-24]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
[Hyperplasia TGLS = 8-25]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8,9-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Moderate Focal, Mild
[Cyst TGLS = 6-1]			
* Skin	Subcut Tiss Subcut Tiss	Fibroma Fibrosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82474

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 3-22]

[Fibrosarcoma TGLS = 2-21]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Hyperplasia

Cystic, Mild

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82475

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 7-24]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 636

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 9-1]			
* Clitoral Gland		Atrophy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
		Hyperplasia	Mild
Note: THE FIBROADENOMA ON SLIDE 24 CONTAINS AREAS OF EXTENSIVE ANGIECTASIS, HEMORRHAGE, AND NECROSIS.			
[Fibroadenoma TGLS = 3-21,4-22,5-23,6-24]			
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-1]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Edema	Moderate
[Edema TGLS = 8-25]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Stomach, Glandular		Erosion	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 636

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81108

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Medulla		Lymphoma Malignant	
* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Moderate
		Lymphoma Malignant	
		[Basophilic Focus TGLS = 10-6]	
		[Eosinophilic Focus TGLS = 10-6]	
		[Hepatodiaphragmatic Nodule TGLS = 11-25]	
		[Lymphoma Malignant TGLS = 10-6]	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Pancreatic	Lymphoma Malignant	
		[Lymphoma Malignant TGLS = 9-7]	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82476

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24]

* Ovary

Cyst

Moderate

Lymphoma Malignant

[Cyst TGLS = 8-7]

* Pancreas

Lymphoma Malignant

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLS = 5-6]

* Thymus

Lymphoma Malignant

* Urinary Bladder

Lymphoma Malignant

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 6-7]

Vagina

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLS = 7-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 391

TRT#: 6

SEX: Female

DAY ON TEST: 597

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 656

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 5-6]			
[Eosinophilic Focus TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
[Fibroadenoma TGLS = 6-22]			
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 656

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81795

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TWO FOCI OF LYMPHOID HYPERPLASIA IN MESENTERY ADJACENT TO MESENTERIC LYMPH NODE ON SLIDE 5; NOT TABULATED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 393

TRT#: 6

SEX: Female

DAY ON TEST: 370

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-78791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Focal, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Inflammation	Chronic, Marked

Note: AREA OF UTERINE INFLAMMATION HAS GLANDULAR AND STROMAL HYPERPLASIA; NOT TABULATED.

[Inflammation TGLS = 1-21]

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 2-6]		
	[Clear Cell Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	Moderate
	[Cyst TGLS = 1-7]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[Adenoma TGLS = 3-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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			

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Marked
[Osteopetrosis TGLS = 9-9]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 7-6]			
[Clear Cell Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22,3-23]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 8-7]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 5-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82478

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 396

TRT#: 6

SEX: Female

DAY ON TEST: 432

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 3-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82479

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-21]			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Intermed	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
[Angiectasis TGLS = 8-1]			
[Angiectasis TGLS = 8-1]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland	Follicle	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82480

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Polyp Stromal TGLS = 5-7]

C Cell

Hyperplasia

Minimal

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Ileum	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone	Femur	Osteopetrosis	Marked
* Kidney		Nephropathy	Minimal
* 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		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
		[Fibroadenoma TGLS = 1-21,2-22,4-23,8-24]	
		[Hyperplasia TGLS = 5-8]	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thymus		Cyst	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
		[Polyp Stromal TGLS = 3-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* 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
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21]		
	[Hyperplasia TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Note: PITUITARY GLAND CYST IS ENCROACHING ON PARS INTERMEDIA.		
	[Cyst TGLS = 4-1]		
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 5-22]		
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82481

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Pigmentation

Mild

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 401

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Bone	Femur	Osteopetrosis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		[Basophilic Focus TGLS = 4-6]	
		[Clear Cell Focus TGLS = 4-6]	
		[Eosinophilic Focus TGLS = 4-6]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
		[Fibroadenoma TGLS = 1-21,2-22]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Note: FOCAL AREA OF ENLARGED, VACUOLATED CELLS WITHIN NONNEOPLASTIC PARS DISTALIS; NOT TABULATED.	
		[Adenoma TGLS = 3-1]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 401

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82482

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 402

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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		

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Brain		Compression	Marked
[Compression TGLS = 7-1]			
* Clitoral GI			
Note: CLITORAL GLAND IS ON SLIDE 3.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 9-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Marked
		Fibroadenoma	Multiple
[Dilatation TGLS = 6-8]			
[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 402

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82483

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 403

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 7-24]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Mild
	[Dilatation TGLS = 1-8]	Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 2-21,3-22,4-23]		
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 5-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 404

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLS = 6-2]		
* Mammary Gland		Dilatation	Mild
	[Dilatation TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-1]		
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 405

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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		Hyperplasia	Focal, Minimal
* Clitoral Gland		Cyst	Marked
[Cyst TGLS = 5-8]			
* Kidney	Renal Tubule	Cytoplasmic Alteration	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 10-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 8-6]			
[Mixed Cell Focus TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 3-22]			
[Hyperplasia TGLS = 4-8]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 7-1]			
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 6-23]			
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:02
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 405	TRT#: 6 DOSE: 1250 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 98-82486
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 2-21] * Spleen		Fibrosis Hematopoietic Cell Proliferation Pigmentation	Moderate Mild Moderate
[Fibrosis TGLS = 9-24] * Thyroid Gland	C Cell	Hyperplasia Ultimobranchial Cyst	Minimal Moderate

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 406

TRT#: 6

SEX: Female

DAY ON TEST: 523

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Brain | * Esophagus | * Heart | * 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 |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | |
|-------------------------------------|----------------------|---------------|
| * Bone Marrow | Hyperplasia | Moderate |
| * Clitoral Gland | Inflammation | Chronic, Mild |
| * Intestine Large, Cecum | Edema | Moderate |
| * Liver | Basophilic Focus | |
| | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lymph Node, Mandibular | Pigmentation | Mild |
| * Mammary Gland | Dilatation | Mild |
| | Hyperplasia | Mild |
| * Spleen | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-6] | | |
| * Uterus | Polyp Stromal | |
| [Polyp Stromal TGLS = 3-7] | | |

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 407

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
		[Basophilic Focus TGLS = 7-6]	
		[Clear Cell Focus TGLS = 7-6]	
		[Eosinophilic Focus TGLS = 7-6]	
		[Mixed Cell Focus TGLS = 7-6]	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		[Dilatation TGLS = 5-8]	
		[Fibroadenoma TGLS = 1-21,4-23]	
* Ovary		Cyst	Moderate
		[Cyst TGLS = 10-7]	
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 2-22]	
* Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 407

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82487

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 6-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Hyperplasia

Cystic, Moderate

[Hyperplasia TGLS = 9-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 408

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Marked
	[Osteopetrosis TGLS = 7-25]		
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Clear Cell Focus	
	[Angiectasis TGLS = 5-24]		
	[Basophilic Focus TGLS = 6-6]		
	[Clear Cell Focus TGLS = 6-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Marked
	[Fibroadenoma TGLS = 1-21,2-22,3-23]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 8-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 408

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82488

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 409

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 1-6]			
[Clear Cell Focus TGLS = 1-6]			
[Hepatodiaphragmatic Nodule TGLS = 4-22]			
[Mixed Cell Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-21,5-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Pigmentation	Mild
Tongue		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 409

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82403

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLS = 6-24]

* Uterus

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 410

TRT#: 6

SEX: Female

DAY ON TEST: 706

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
	[Osteopetrosis TGLS = 11-25]		
* Clitoral Gland		Carcinoma	
	[Carcinoma TGLS = 3-22]		
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Centrilobular	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]	Necrosis	Mild
	[Necrosis TGLS = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
	[Dilatation TGLS = 2-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 410

TRT#: 6

SEX: Female

DAY ON TEST: 706

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81949

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-21,4-23,10-24]

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Moderate

[Adenoma TGLS = 12-1]

* Salivary Glands

Atrophy

Mild

* Spleen

Leukemia Mononuclear

Pigmentation

Moderate

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Clitoral Gland Carcinoma; Mammary Gland Fibroadenoma; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 411

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Uterus

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Mild
[Osteopetrosis TGLS = 10-28]			
* Clitoral GI	Note: CLITORAL GLAND IS PARTIALLY INCORPORATED WITHIN FIBROADENOMA ON SLIDE 26.		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 8-6]			
[Clear Cell Focus TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24,5-25,6-26]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 7-27]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 411

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82295

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 9-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 412

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Jejunum

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 5-6]		
	[Clear Cell Focus TGLS = 5-6]		
	[Hepatodiaphragmatic Nodule TGLS = 6-24]		
	[Mixed Cell Focus TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	Note: FIBROADENOMA ALSO PRESENT ON SLIDE 8.		
	[Fibroadenoma TGLS = 1-21,2-22,4-23,7-25,11-26]		
	[Hyperplasia TGLS = 8-8]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 3-7]		
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 412

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82296

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 9-1]

* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 413

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Intestine Large, Rectum		Fibrosis	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 7-6]			
[Clear Cell Focus TGLS = 7-6]			
[Eosinophilic Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 8-3]			
[Pigmentation TGLS = 8-3]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Dilatation TGLS = 4-8]			
[Fibroadenoma TGLS = 2-22,9-23]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 413

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82297

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Mild

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLS = 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 414

TRT#: 6

SEX: Female

DAY ON TEST: 706

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Brain	Compression	Moderate
[Compression TGLS = 6-1]		
* Clitoral Gland	Atrophy	Mild
	Inflammation	Chronic, Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Mixed Cell Focus	
[Basophilic Focus TGLS = 7-6]		
[Clear Cell Focus TGLS = 7-6]		
[Mixed Cell Focus TGLS = 7-6]		
* Lung	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
	Pigmentation	Mild
[Pigmentation TGLS = 4-8]		
* Mammary Gland	Dilatation	Mild
	Fibroadenoma	
[Dilatation TGLS = 3-8]		
[Fibroadenoma TGLS = 1-21]		
* Ovary	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 414

TRT#: 6

SEX: Female

DAY ON TEST: 706

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81950

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 9-7]

* Pancreas

Atrophy

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 5-1]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 415

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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

- | | | | |
|-----------------------------------|---------------|----------------------------------|------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| [Basophilic Focus TGLS = 4-6] | | | |
| [Clear Cell Focus TGLS = 4-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 2-8] | | | |
| [Fibroadenoma TGLS = 1-21,3-22] | | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Marked |
| [Angiectasis TGLS = 5-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 416

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Blood Vessel | * 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 | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|---|---------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 12-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 14-28] | | | |
| [Mixed Cell Focus TGLS = 12-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Mild |
| [Fibroadenoma TGLS = 1-21,2-22,3-23,4-24,5-25,6-26] | | | |
| [Hyperplasia TGLS = 7-8] | | | |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLS = 13-27] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 8-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 416

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82299

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 417

TRT#: 6

SEX: Female

DAY ON TEST: 672

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-81871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Ovary	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Marked
* Bone Marrow		Hyperplasia	Mild
Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	[Cataract TGLS = 1-44]		
* Liver		Basophilic Focus	
	Centrilobular	Necrosis	Moderate
	[Necrosis TGLS = 7-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 2-21,3-22,4-23,5-24]	Hyperplasia	Moderate
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 9-1]		
* Salivary Glands		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 417

TRT#: 6

SEX: Female

DAY ON TEST: 672

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-81871

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Marked

[Hematopoietic Cell Proliferation TGLS = 11-25]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 418

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Brain		Compression	Moderate
[Compression TGLS = 9-1]			
* Clitoral Gland		Cyst	Moderate
* Kidney		Hydronephrosis	Mild
		Infarct	Minimal
		Nephropathy	Minimal
[Hydronephrosis TGLS = 7-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Eosinophilic Focus TGLS = 11-25]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-22,3-23,10-24]			
[Hyperplasia TGLS = 4-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 418

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82300

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-21]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Uterus

Pigmentation

Mild

[Polyp Stromal TGLS = 5-7]

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 419

TRT#: 6

SEX: Female

DAY ON TEST: 569

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland		Atrophy	Moderate
		Inflammation	Chronic, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland			
Note: MAMMARY GLAND IS PRESENT ADJACENT TO CLITORAL GLAND SECTION.			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Pigmentation	Moderate
Note: MILD HYPERPLASIA OF MARGINAL ZONES OF LYMPHOID FOLLICLES; NOT TABULATED.			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 420

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLS = 6-6]		
	[Clear Cell Focus TGLS = 6-6]		
	[Eosinophilic Focus TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-21,2-8,3-22,4-23,5-24]		
* Ovary		Cyst	Moderate
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thymus		Cyst	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 421

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 6-6]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22,3-23]			
* Skin	Subcut Tiss	Neural Crest Tumor	
[Neural Crest Tumor TGLS = 4-24]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma
 CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Neural Crest Tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 422

TRT#: 6

SEX: Female

DAY ON TEST: 685

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* 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
		Degeneration	Fatty, Mild
* Brain		Compression	Marked
[Compression TGLS = 7-1]			
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 9-6]			
[Eosinophilic Focus TGLS = 12-25]			
[Hepatodiaphragmatic Nodule TGLS = 12-25]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Marked
[Fibroadenoma TGLS = 4-23,5-24]			
[Hyperplasia TGLS = 1-21,8-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 422

TRT#: 6

SEX: Female

DAY ON TEST: 685

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81818

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 423

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic, Moderate
Note: TGL 3-8 IS A FOCUS OF HISTIOCYTIC CELLS CONTAINING CEROID-LIKE PIGMENT. [Inflammation TGLS = 3-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
Note: CLEAR CELL FOCI ARE ON SLIDE 23. [Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 4-22] [Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 423

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82302

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Pigmentation

Mild

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 424

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
* Lung	Alveolar Epith	Hemorrhage	Mild
		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
[Hemorrhage TGLS = 5-2]			
[Hyperplasia TGLS = 5-2]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22]			
* Ovary		Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 4-23]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Stomach, Forestomach		Erosion	Moderate
	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 424

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82303

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 425

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
Note: EXTENSIVE ANGIECTASIS WITHIN HEPATOCELLULAR ADENOMA.			
		[Basophilic Focus TGLS = 6-6]	
		[Hepatocellular Adenoma TGLS = 10-26]	
		[Hepatodiaphragmatic Nodule TGLS = 7-24]	
		[Mixed Cell Focus TGLS = 6-6]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
		[Fibroadenoma TGLS = 2-22,4-23,9-25]	
		[Hyperplasia TGLS = 3-8]	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
		[Adenoma TGLS = 8-1]	
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:02
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 425	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 1250 PPM	DISP: Terminal Sacrifice	HISTO: 98-82304

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 426

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 7-6]			
[Eosinophilic Focus TGLS = 7-6]			
[Hepatodiaphragmatic Nodule TGLS = 8-23]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA ALSO PRESENT ON SLIDE 8.			
[Fibroadenoma TGLS = 1-21,2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 426

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82405

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 427

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone	Cranium	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 6-24]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
	[Basophilic Focus TGLS = 5-6]		
	[Eosinophilic Focus TGLS = 5-6]		
	[Infiltration Cellular TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21,2-22,3-23]		
	[Hyperplasia TGLS = 4-8]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 7-25]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 427

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82406

ORGAN AND ACCOUNTABLE SITE STATUS

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 428

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 3-23]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 429

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia Nephropathy	Moderate Fatty, Minimal Focal, Mild Minimal
* Kidney		Basophilic Focus Clear Cell Focus Eosinophilic Focus	
* Liver			
[Basophilic Focus TGLS = 5-6] [Clear Cell Focus TGLS = 5-6] [Eosinophilic Focus TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Moderate Histiocyte, Mild
[Hyperplasia TGLS = 7-23]			
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
[Fibroadenoma TGLS = 2-22]			
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Moderate Focal, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 429

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82490

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 6-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 430

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Clitoral Gland	Atrophy	Mild
[Atrophy TGLS = 1-8]		
* Heart	Cardiomyopathy	Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Eosinophilic Focus	
	Hemorrhage	Moderate
[Basophilic Focus TGLS = 7-6]		
[Eosinophilic Focus TGLS = 7-6]		
[Hemorrhage TGLS = 8-23]		
* Lung	Infiltration Cellular	Histiocyte, Mild
* Mammary Gland	Carcinoma	
	Fibroadenoma	
	Hyperplasia	Mild
Note: MAMMARY GLAND FIBROADENOMA ALSO ADJACENT TO CARCINOMA ON SLIDE 21.		
[Carcinoma TGLS = 4-21]		
[Fibroadenoma TGLS = 5-22]		
[Hyperplasia TGLS = 2-8]		
* Skin	Angiectasis	Moderate
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 430

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82407

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 685

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 7-6]		
	[Clear Cell Focus TGLS = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Adenoma	
		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Adenoma TGLS = 1-21]		
	[Fibroadenoma TGLS = 2-22,3-23]		
* Pancreas		Atrophy	Minimal
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Pinna	Neural Crest Tumor	
	[Fibroma TGLS = 4-24]		
	[Neural Crest Tumor TGLS = 5-25]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma
 CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Adenoma;Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
	[Osteopetrosis TGLS = 12-26]		
* Bone Marrow		Hyperplasia	Mild
* Brain		Compression	Moderate
	[Compression TGLS = 11-1]	Hydrocephalus	Mild
* Clitoral Gland		Atrophy	Moderate
* Heart	Myocardium	Fibrosis	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 7-6]		
	[Clear Cell Focus TGLS = 7-6]		
	[Eosinophilic Focus TGLS = 7-6]		
	[Mixed Cell Focus TGLS = 7-6]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82279

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24,9-25]		
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 10-1]		
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
* Uterus		Sarcoma Stromal	
	[Sarcoma Stromal TGLS = 8-7-1]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 586

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Brain
* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
			[Osteopetrosis TGLS = 7-9]
			[Osteopetrosis TGLS = 8-24]
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Chronic, Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Moderate
			[Basophilic Focus TGLS = 5-6]
Lymph Node	Renal	Hemorrhage	Moderate
	Renal	Pigmentation	Moderate
			[Hemorrhage TGLS = 6-23]
			[Pigmentation TGLS = 6-23]
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Carcinoma	
			[Carcinoma TGLS = 1-21]
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
		Pigmentation	Moderate
			[Hematopoietic Cell Proliferation TGLS = 4-6]
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 586

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80257

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 685

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
[Mixed Cell Focus TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Atypical, Marked
		Infiltration Cellular	Histiocyte, Mild
Note: LUNG CARCINOMA HAS EXTENSIVE SCIRRHOU COMPONENT; APPEARS TO BE POSSIBLY OF MUCOUS GLAND ORIGIN.			
		[Hyperplasia TGLS = 7-2]	
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1-21,2-22,6-23,8-24]	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 685

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81820

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Lung Alveolar Epith Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Atrophy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
[Mixed Cell Focus TGLS = 4-6]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82035

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Angiectasis	Moderate
	Basophilic Focus	
	Clear Cell Focus	
	Mixed Cell Focus	
	Necrosis	Focal, Minimal
[Angiectasis TGLS = 4-6]		
[Basophilic Focus TGLS = 4-6]		
[Clear Cell Focus TGLS = 4-6]		
[Mixed Cell Focus TGLS = 4-6]		
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Moderate
* Mammary Gland	Dilatation	Mild
	Fibroadenoma	Multiple
	Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-21,2-22,3-23]		
* Pituitary Gland	Pars Distalis	Adenoma
Note: PORTIONS OF ADENOMA ARE ANAPLASTIC AND SUGGEST BEGINNING CARCINOMATOUS TRANSFORMATION.		
* Salivary Glands	Atrophy	Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82036

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Pigmentation

Moderate

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 702

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Parathyroid Gland	* Salivary Glands	Skeletal Muscle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
Note: EOSIN FOCUS IS ALSO PRESENT ON SLIDE 24.			
* Mammary Gland		Fibroadenoma	Multiple
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 702

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81940

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 4-10]			
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 5-6,6-6]			
[Hepatodiaphragmatic Nodule TGLS = 7-24]			
[Mixed Cell Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22,3-23,11-25]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 9-7-1]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82280

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Polyp Stromal TGLS = 10-7]

Vagina

[Leiomyosarcoma TGLS = 8-7-1]

Pigmentation

Mild

Polyp Stromal

Leiomyosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy Leukemia Mononuclear	Focal, Marked
[Leukemia Mononuclear TGLS = 7-10]			
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Degeneration Leukemia Mononuclear	Hyaline, Minimal
	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
[Leukemia Mononuclear TGLS = 6-5]			
[Pigmentation TGLS = 6-5]			
* Liver		Eosinophilic Focus Hepatocellular Adenoma Leukemia Mononuclear	Multiple
[Eosinophilic Focus TGLS = 9-6]			
[Hepatocellular Adenoma TGLS = 10-6,12-24]			
[Leukemia Mononuclear TGLS = 9-6,11-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage Pigmentation	Minimal Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 8-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82281

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Fibroadenoma TGLS = 2-22]		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
Note: THE FIBROMA ON SLIDE 21 AND THE ADJACENT ADIPOSE TISSUE ARE INFILTRATED WITH LEUKEMIA MONUC. [Fibroma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Blood Vessel | * 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 | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|---|---------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Bone | Cranium | Osteopetrosis | Mild |
| [Osteopetrosis TGLS = 12-31] | | | |
| * Clitoral Gland | | Atrophy | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| [Basophilic Focus TGLS = 8-6] | | Infiltration Cellular | Mixed Cell, Minimal |
| [Eosinophilic Focus TGLS = 8-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLS = 1-21,3-23,4-24,5-25,6-26,7-27] | | | |
| * Pituitary Gland | Pars Distalis | Cyst | Moderate |
| | Pars Distalis | Hyperplasia | Focal, Minimal |
| * Salivary Glands | | Atrophy | Moderate |
| * Skin | Subcut Tiss | Fibroma | |
| | Subcut Tiss | Fibrosarcoma | Multiple |
| [Fibroma TGLS = 2-22] | | | |
| [Fibrosarcoma TGLS = 9-28,10-29] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82282

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

[Adenoma TGLS = 11-30]

Pigmentation

Adenoma

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Diffuse, Moderate
[Hyperplasia TGLS = 7-10]			
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Atrophy	Moderate
* Kidney		Nephropathy	Minimal
Note: MILD MINERALIZATION; NOT TABULATED.			
* Liver		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	
		Necrosis	Focal, Marked
[Hepatodiaphragmatic Nodule TGLS = 9-24]			
[Necrosis TGLS = 10-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21,3-22,4-23]			
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 6-6]			
* Stomach, Glandular		Erosion	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82283

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 663

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 9-6]			
[Clear Cell Focus TGLS = 9-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA ALSO PRESENT ON SLIDE 8.			
[Fibroadenoma TGLS = 3-23,4-24,5-25,6-26,7-27,8-28]			
* Ovary			
Note: CYSTIC STRUCTURE ADJACENT TO OVARY CONSIDERED TANGENTIAL SECTION OF OVARIAN BURSA.			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 11-1]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLS = 1-21,2-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:02
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 663

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81722

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation
Pigmentation

Moderate
Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 691

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
Note: FOCUS OF FIBROUS TISSUE JUST OUTSIDE ADRENAL CAPSULE; NOT TABULATED.			
* Brain		Astrocytoma Malignant	
		Hydrocephalus	Moderate
[Astrocytoma Malignant TGLS = 6-1]			
[Hydrocephalus TGLS = 6-1]			
* Clitoral Gland		Atrophy	Moderate
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 2-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6,5-22]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA ALSO PRESENT ON SLIDE 8.			
[Fibroadenoma TGLS = 8-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 691

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81851

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Marked
Note: ZONE OF ANAPLASTIC CELLS BORDERING ANGIECTASIS; DIAGNOSED AS PITUITARY GL CARCINOMA. [Angiectasis TGLS = 4-1]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen	Lymph Follic	Atrophy	Moderate
		Pigmentation	Moderate
* Stomach, Glandular		Erosion	Mild
[Erosion TGLS = 7-4]			

PRIMARY CAUSE OF DEATH - Brain Astrocytoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 665

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder	Vagina	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Necrosis	Focal, Moderate
[Necrosis TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Pigmentation	Mild
Note: MODERATE HISTIOCYTOSIS; CONSIDERED BACKGROUND CHANGE AND NOT TABULATED.			
* Mammary Gland		Fibroadenoma	Multiple
Note: GLANDULAR COMPONENT OF FIBRADENOMA ON SLIDE 21 IS NECROTIC.			
[Fibroadenoma TGLS = 1-21,2-22]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
		Pigmentation	Moderate
[Hematopoietic Cell Proliferation TGLS = 6-6]			
* Stom Forestom			
Note: MINERALIZATION ARTIFACT IN FORESTOMACH.			
* Stomach, Glandular		Erosion	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 10/17/2014
Time Report Requested: 08:59:02
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 444	TRT#: 8	SEX: Female	DAY ON TEST: 665
	DOSE: 2000 PPM	DISP: Moribund Sacrifice	HISTO: 97-81723

ORGAN AND ACCOUNTABLE SITE STATUS

[Erosion TGLS = 9-4] [Ulcer TGLS = 9-4]		Ulcer	Mild
* Thyroid Gland * Uterus	C Cell	Adenoma Hydrometra Polyp Stromal	Moderate
[Hydrometra TGLS = 7-7] [Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 687

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
	[Leukemia Mononuclear TGLS = 8-5]		
	[Pigmentation TGLS = 8-5]		
* Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
	[Eosinophilic Focus TGLS = 4-6]		
	[Hepatocellular Adenoma TGLS = 6-22]		
	[Hepatodiaphragmatic Nodule TGLS = 5-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-2]		
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 687

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81872

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Mammary Gland

Hyperplasia

Mild

* Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Minimal

* Salivary Glands

Atrophy

Moderate

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Thymus

Leukemia Mononuclear

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Clitoral Gland		Atrophy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82450

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 447

TRT#: 8

SEX: Female

DAY ON TEST: 676

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 98-81873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------|-----------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Heart |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic | * Kidney |
| * Lymph Node, Mandibular | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | |
|--------------------------|--------------------------|
| * Intestine Large, Colon | * Intestine Small, Ileum |
|--------------------------|--------------------------|

AUTO PRECLUDES DIAG.

- | | | |
|--------------------------|----------------------------|----------|
| * Intestine Large, Cecum | * Intestine Small, Jejunum | * Spleen |
|--------------------------|----------------------------|----------|

INSUFFICIENT TISSUE

- * Lymph Node, Mesenteric

OBSERVATIONS

- | | | |
|---------------------------------------|-----------------------|---------------------|
| * Bone Marrow | Hyperplasia | Moderate |
| * Clitoral Gl | | |
| Note: CLITORAL GL PRESENT ON SLIDE 8. | | |
| * Liver | Basophilic Focus | |
| [Basophilic Focus TGLS = 2-6] | | |
| * Lung | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Dilatation | Minimal |
| | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | |

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Mild
[Osteopetrosis TGLS = 7-9]			
* Clitoral Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 5-6,8-23]			
[Clear Cell Focus TGLS = 5-6,8-23]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 4-21,6-22,9-24]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 2-1]			
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone [Osteopetrosis TGLS = 8-25]	Cranium	Osteopetrosis	Mild
* Clitoral Gland [Cyst TGLS = 1-8]		Cyst	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma Mixed Cell Focus	
Note: EOSIN FOCUS IS ON SLIDE 24. [Basophilic Focus TGLS = 6-6] [Clear Cell Focus TGLS = 6-6] [Hepatocellular Adenoma TGLS = 5-24] [Mixed Cell Focus TGLS = 6-6]			
* Lung [Hemorrhage TGLS = 7-2]		Hemorrhage Infiltration Cellular	Mild Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland [Fibroadenoma TGLS = 2-21,3-22]		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82452

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Cyst

Moderate

* Salivary Glands

Atrophy

Moderate

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 4-23]

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Mild
	[Osteopetrosis TGLS = 7-24]		
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 4-6]		
	[Clear Cell Focus TGLS = 4-6]		
	[Eosinophilic Focus TGLS = 4-6]		
	[Mixed Cell Focus TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
	[Hyperplasia TGLS = 8-2]		
* Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82037

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-21,2-22,3-23]

* Ovary

Cyst

Moderate

Granulosa Cell Tumor Malignant

Note: THE CYST APPEARS TO BE A PARAOVARIAN CYST (PRESENT IN PARAOVARIAN FAT, DETACHED FROM OVARY).

[Cyst TGLS = 5-7]

[Granulosa Cell Tumor Malignant TGLS = 6-7]

* Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

* Salivary Glands

Atrophy

Mild

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Ovary Granulosa Cell Tumor Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 451

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Renal Tubule	Nephropathy	Minimal
[Pigmentation TGLS = 2-5]		Pigmentation	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
[Mixed Cell Focus TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
		Hemorrhage	Minimal
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Salivary Glands		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 451

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82284

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Epithelium

Hyperplasia

Moderate

[Hyperplasia TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 452

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone	Femur	Osteopetrosis	Moderate
* Clitoral Gland		Atrophy	Moderate
		Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
[Mixed Cell Focus TGLS = 6-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-21,3-22,4-23]			
Mesentery		Lipoma	
[Lipoma TGLS = 5-24]			
* Salivary Glands		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 452

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82453

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 453

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
[Eosinophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21,3-22,4-23,7-24]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 454

TRT#: 8

SEX: Female

DAY ON TEST: 709

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
	[Osteopetrosis TGLS = 9-22]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Focal, Minimal
	[Basophilic Focus TGLS = 6-6]		
	[Eosinophilic Focus TGLS = 6-6]		
	[Necrosis TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[Infiltration Cellular TGLS = 5-2]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
		Fibroadenoma	Multiple
* Mammary Gland			
	[Fibroadenoma TGLS = 1-21,3-8]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 454

TRT#: 8

SEX: Female

DAY ON TEST: 709

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82038

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 4-3]

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 8-7]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Thyroid Gland Follicular Cel Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 455

TRT#: 8

SEX: Female

DAY ON TEST: 569

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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		Degeneration Hyperplasia Leukemia Mononuclear	Fatty, Marked Focal, Marked
* Bone	Femur	Osteopetrosis	Moderate
* Bone Marrow		Myelofibrosis	Moderate
Eye	Retina	Cataract Degeneration	Moderate Marked
[Cataract TGLS = 2-23]			
* Kidney	Transit Epithe	Hyperplasia Inflammation Nephropathy	Moderate Chronic, Mild Minimal
* Liver		Basophilic Focus Eosinophilic Focus Leukemia Mononuclear	
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear Pigmentation	Mild
* Mammary Gland		Dilatation Fibroadenoma	Minimal
[Fibroadenoma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 455

TRT#: 8

SEX: Female

DAY ON TEST: 569

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80201

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 5-1]

Pars Distalis

Adenoma

* Spleen

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 456

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * 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 | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|--|--------------|------------------------|--------------------|
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 1-8] | | | |
| * Kidney | Renal Tubule | Degeneration | Hyaline, Minimal |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 6-6] | | | |
| [Clear Cell Focus TGLS = 6-6] | | | |
| [Eosinophilic Focus TGLS = 6-6] | | | |
| [Mixed Cell Focus TGLS = 6-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Moderate |
| | | Pigmentation | Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Minimal |
| Note: FIBROADENOMA ALSO PRESENT WITH REGULAR MAMMARY GLAND SECTION ON SLIDE 8. | | | |
| [Fibroadenoma TGLS = 2-8,3-21,4-22,5-23] | | | |
| * Pancreas | Acinus | Hyperplasia | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 456

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82455

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 7-24]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 457

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland		Atrophy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 7-6]			
[Clear Cell Focus TGLS = 7-6]			
[Eosinophilic Focus TGLS = 7-6]			
[Mixed Cell Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
Note: THE FIBROUS COMPONENT OF THE FIBROADENOMA ON SLIDE 21 HAS A LOCALIZED AREA OF INCREASED CELLULAR DENSITY AND PLEOMORPHISM.			
[Dilatation TGLS = 5-8]			
[Fibroadenoma TGLS = 1-21,2-22,4-24]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 457

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82039

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-1] [Angiectasis TGLS = 6-1] * Salivary Glands	Pars Distalis	Cyst	Moderate
* Skin [Fibroma TGLS = 3-23] * Spleen	Subcut Tiss	Atrophy Fibroma Hematopoietic Cell Proliferation Pigmentation	Mild Moderate Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 458

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pituitary Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia	Moderate Fatty, Marked Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Atrophy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus Infiltration Cellular Mixed Cell Focus	Mixed Cell, Mild
[Basophilic Focus TGLS = 9-6]			
[Eosinophilic Focus TGLS = 9-6]			
[Mixed Cell Focus TGLS = 9-6]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Moderate Histiocyte, Minimal
[Hyperplasia TGLS = 10-2]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Dilatation Fibroadenoma Hyperplasia	Minimal Multiple Minimal
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21,3-22,4-23,6-25,7-26,8-27]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 458

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82456

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 5-24]

* Spleen

Hematopoietic Cell Proliferation

Mild

Zymbal's Gland

Carcinoma

[Carcinoma TGLS = 11-28]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 459

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21,2-22,4-23]			
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Ovary		Angiectasis	Marked
[Angiectasis TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Salivary Glands		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 459

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82204

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma;Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 460

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Clitoral Gland	Atrophy	Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Eosinophilic Focus	
	Infiltration Cellular	Mixed Cell, Minimal
	Mixed Cell Focus	
[Basophilic Focus TGLS = 7-6]		
[Clear Cell Focus TGLS = 7-6]		
[Eosinophilic Focus TGLS = 7-6]		
[Mixed Cell Focus TGLS = 7-6]		
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Fibroadenoma	Multiple
	Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24,5-25,6-26]		
* Salivary Glands	Atrophy	Mild
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 460

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82457

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 461

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland		Atrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 6-6]			
[Clear Cell Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6,8-24]			
[Mixed Cell Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Dilatation TGLS = 4-8]			
[Fibroadenoma TGLS = 1-21,2-22,3-23,9-25]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 5-7]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 461

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82285

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA HAS SOME MORPHOLOGICAL SIMILARITY TO A PARS INTERMEDIA ADENOMA, BUT IS SITTING WITHIN PARS DISTALIS.

* Salivary Glands

Atrophy

Moderate

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

* Uterus

Hyperplasia

Cystic, Mild

Vagina

Granular Cell Tumor Benign

Note: TGL 7-7 CONSIDERED TO BE BENIGN GRANULAR CELL TUMOR; MORPHOLOGY NOT AVAILABLE ON TDMS.

[Granular Cell Tumor Benign TGLS = 7-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 462

TRT#: 8

SEX: Female

DAY ON TEST: 488

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-79287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Kidney	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Marked
* Bone Marrow	Leukemia Mononuclear	
* Liver	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6,4-6]		
* Lung	Infiltration Cellular	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 1-2]	Leukemia Mononuclear	
* Lymph Node, Mesenteric	Leukemia Mononuclear	
* Mammary Gland	Dilatation	Minimal
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]		

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 463

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Bone	Femur	Osteopetrosis	Mild
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
[Pigmentation TGLS = 7-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 8-6]			
[Eosinophilic Focus TGLS = 8-6]			
[Mixed Cell Focus TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
[Dilatation TGLS = 5-8]			
[Fibroadenoma TGLS = 1-21,2-22]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 3-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 463

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82286

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Minimal

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 9-7-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Marked
	[Osteopetrosis TGLS = 7-24]		
* Clitoral Gland		Adenoma	
		Atrophy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Mild
	[Alveolar/Bronchiolar Adenoma TGLS = 4-2]		
	[Infiltration Cellular TGLS = 5-2]		
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Pigmentation	Moderate
	[Hemorrhage TGLS = 8-3]		
	[Pigmentation TGLS = 8-3]		
* Lymph Node, Mandibular		Ectasia	Mild
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82287

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-21,2-22,3-23]		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 6-1]			
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 465

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone	Femur	Osteopetrosis	Mild
* Brain		Compression	Mild
	[Compression TGLS = 8-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[Basophilic Focus TGLS = 7-6]		
	[Clear Cell Focus TGLS = 7-6]		
	[Eosinophilic Focus TGLS = 7-6]		
	[Hepatocellular Adenoma TGLS = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21,4-23,5-24]		
	[Hyperplasia TGLS = 2-8]		
* Parathyroid GI			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 465

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82288

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PARATHYROID GL PRESENT (SLIDE 3).

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 9-1]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Minimal
Vagina		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 6-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 466

TRT#: 8

SEX: Female

DAY ON TEST: 698

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy	Moderate Fatty, Mild Focal, Moderate
* Clitoral Gland		Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma	
[Basophilic Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
[Hepatocellular Adenoma TGLS = 5-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-22]			
* Salivary Glands		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 466

TRT#: 8

SEX: Female

DAY ON TEST: 698

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81941

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 467

TRT#: 8

SEX: Female

DAY ON TEST: 663

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 98-81874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus	Vagina		

MISSING

* Clitoral Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
	Centrilobular	Necrosis	Moderate
	[Basophilic Focus TGLS = 4-6]		
	[Necrosis TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
	[Pigmentation TGLS = 1-8]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[Fibroadenoma TGLS = 2-21]		
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Note: AGGREGATE OF HEMOSIDERIN-CONTAINING MACROPHAGES ADJACENT TO ANGIECTASIS.		
	[Angiectasis TGLS = 5-1]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 467

TRT#: 8

SEX: Female

DAY ON TEST: 663

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 98-81874

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 468

TRT#: 8

SEX: Female

DAY ON TEST: 636

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-81109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* 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	* Pituitary Gland	* Salivary Glands	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex [Hyperplasia TGLS = 3-22]		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Liver [Necrosis TGLS = 4-6]	Centrilobular	Basophilic Focus Necrosis	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia Pigmentation	Lymphoid, Moderate Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland [Fibroadenoma TGLS = 1-21,7-24]		Dilatation Fibroadenoma	Moderate Multiple
* Skin Note: SQUAMOUS HYPERPLASIA OVERLYING SEBACEOUS ADENOMA. [Adenoma TGLS = 5-23]	Sebaceous GI	Adenoma	
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Marked Moderate
* Stomach, Forestomach [Ulcer TGLS = 6-4]		Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 468

TRT#: 8

SEX: Female

DAY ON TEST: 636

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 97-81109

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Note: THYMUS APPEARS EXCESSIVELY ATROPHIC; NOT TABULATED.

* Uterus

Hemangioma

[Hemangioma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Uterus Hemangioma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 469

TRT#: 8

SEX: Female

DAY ON TEST: 706

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Atrophy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Eosinophilic Focus TGLS = 5-6]			
[Mixed Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21,2-22]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 7-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 469

TRT#: 8

SEX: Female

DAY ON TEST: 706

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81951

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Vagina

Hemangioma

[Hemangioma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 470

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Atrophy	Moderate
		Inflammation	Chronic, Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-22,3-23,4-24]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 471

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Hyperplasia	Fatty, Minimal Focal, Minimal Mild
* Bone Marrow		Atrophy	Moderate
* Clitoral Gland [Atrophy TGLS = 6-8]		Cardiomyopathy	Minimal
* Heart		Degeneration	Hyaline, Minimal
* Kidney	Renal Tubule	Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland [Fibroadenoma TGLS = 1-21,2-22]		Fibroadenoma	Multiple
* Nose		Foreign Body Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 471

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82290

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5-1]

* Salivary Glands

Atrophy

Mild

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 472

TRT#: 8

SEX: Female

DAY ON TEST: 632

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Moderate
		Hyperplasia	Lymphoid, Marked
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 5-22,6-8]		
* Nose		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-7,3-7]		
Zymbal's Gland		Carcinoma	
	[Carcinoma TGLS = 4-21]		

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 473

TRT#: 8

SEX: Female

DAY ON TEST: 636

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex

Accessory Adrenal Cortical Nodule
Hyperplasia

Moderate
Focal, Mild

Note: FOCUS OF FIBROUS TISSUE JUST OUTSIDE ADRENAL CAPSULE; NOT TABULATED.

* Bone Marrow

Hyperplasia
Nephropathy
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Mixed Cell Focus

Moderate
Minimal

* Kidney

* Liver

[Basophilic Focus TGLS = 4-6]
[Eosinophilic Focus TGLS = 4-6]
[Mixed Cell Focus TGLS = 4-6]

* Lung

Alveolar Epith

Hyperplasia
Infiltration Cellular

Moderate
Histiocyte, Mild

[Hyperplasia TGLS = 6-2-1,7-2-2]

* Lymph Node, Mandibular

Hyperplasia
Fibroadenoma

Lymphoid, Moderate

* Mammary Gland

Note: FIBROADENOMA ALSO PRESENT ON SLIDE 8.

[Fibroadenoma TGLS = 1-21]

* Nose

Inflammation

Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 473

TRT#: 8

SEX: Female

DAY ON TEST: 636

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81111

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Cyst

Moderate

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 474

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 1-6]			
[Clear Cell Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA IS ON SLIDE 8.			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 2-1]			
* Salivary Glands		Atrophy	Moderate
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 475

TRT#: 8

SEX: Female

DAY ON TEST: 464

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	Femur	Osteopetrosis	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Cyst	Moderate
[Cyst TGLS = 2-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 476

TRT#: 8

SEX: Female

DAY ON TEST: 639

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Atrophy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 4-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
Note: HYPERPLASTIC MAMMARY GL IS ADJACENT TO CLITORAL GL.			
[Dilatation TGLS = 7-8]			
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 476

TRT#: 8

SEX: Female

DAY ON TEST: 639

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81134

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-1]

* Salivary Glands

Atrophy

Mild

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 477

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 9-23]			
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Minimal
[Alveolar/Bronchiolar Carcinoma TGLS = 6-2]			
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 8-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: FOCUS OF SLIGHTLY ENLARGED, VACUOLATED CELLS IN PARS DISTALIS; NOT TABULATED.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 477

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82459

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-1]

* Salivary Glands

Atrophy

Moderate

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 7-21]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

* Thyroid Gland

C Cell

Adenoma

* Urinary Bladder

Papilloma

Note: PAPILLOMA HAS SQUAMOUS DIFFERENTIATION.

[Papilloma TGLS = 3-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 478

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Bone	Femur	Osteopetrosis	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 4-24]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	Note: MAMMARY GLAND IS ADJACENT TO CLITORAL GLAND.		
	[Fibroadenoma TGLS = 1-21,2-22,3-23]		
* Pancreas		Atrophy	Moderate
* Salivary Glands		Atrophy	Moderate
	Note: SALIVARY GLAND ATROPHY CONSISTS OF DEPLETION OF SECRETORY DUCTS IN SUBMANDIBULAR GLAND.		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 5-25]		
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 9-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 7-6]			
[Clear Cell Focus TGLS = 7-6]			
[Mixed Cell Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 5-22]			
[Hyperplasia TGLS = 3-8]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hydrometra	Moderate
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82461

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 10-7,11-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 480

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82462

ORGAN AND ACCOUNTABLE SITE STATUS

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 481

TRT#: 8

SEX: Female

DAY ON TEST: 722

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 98-82401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 9-1]			
* Clitoral Gland		Atrophy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 7-6]			
[Eosinophilic Focus TGLS = 7-6]			
[Mixed Cell Focus TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21,3-22,4-23,5-24,11-25,12-26]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-1]			
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 481

TRT#: 8

SEX: Female

DAY ON TEST: 722

DOSE: 2000 PPM

DISP: Natural Death

HISTO: 98-82401

ORGAN AND ACCOUNTABLE SITE STATUS

Pigmentation

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 482

TRT#: 8

SEX: Female

DAY ON TEST: 603

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-10]			
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Mild
[Osteopetrosis TGLS = 6-9]			
[Osteopetrosis TGLS = 7-21]			
* Bone Marrow		Myelofibrosis	Moderate
Note: MYELOFIBROSIS CONSIDERED SECONDARY TO LEUKEMIA MONUC.			
* Clitoral Gland		Atrophy	Mild
* Liver		Leukemia Mononuclear	
		Regeneration	Diffuse, Marked
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lym Node Mesen			
Note: MODERATE HISTIOCYTOSIS IN MESENTERIC LYMPH NODE; NOT TABULATED.			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Ovary		Angiectasis	Moderate
* Salivary Glands		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 482

TRT#: 8

SEX: Female

DAY ON TEST: 603

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80747

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 483

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone [Osteopetrosis TGLS = 9-25]	Cranium	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Atrophy	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver [Basophilic Focus TGLS = 6-6] [Eosinophilic Focus TGLS = 6-6] [Mixed Cell Focus TGLS = 6-6]		Basophilic Focus Eosinophilic Focus Infiltration Cellular Mixed Cell Focus	Mixed Cell, Mild
* Lung [Ectasia TGLS = 3-8] [Hyperplasia TGLS = 3-8]		Infiltration Cellular Ectasia Hyperplasia	Histiocyte, Minimal Marked Lymphoid, Marked
* Mammary Gland [Fibroadenoma TGLS = 1-21,2-22,4-23]		Fibroadenoma Hyperplasia	Multiple Moderate
* Nose		Foreign Body Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 483

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82291

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Intermed	Cyst	Moderate
[Cyst TGLS = 10-1]			
* Salivary Glands		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 8-24]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thymus		Cyst	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 7-26]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 484

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Adrenal Cortex	* Adrenal Medulla
------------------	-------------------

OBSERVATIONS

* Bone	Femur	Osteopetrosis	Moderate
* Heart		Cardiomyopathy	Mild
		Schwannoma Malignant	
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
[Pigmentation TGLS = 11-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 12-6]			
[Eosinophilic Focus TGLS = 12-6]			
[Mixed Cell Focus TGLS = 12-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 13-3]			
[Pigmentation TGLS = 13-3]			
* Lymph Node, Mandibular		Pigmentation	Moderate
[Pigmentation TGLS = 5-8]			
* Lymph Node, Mesenteric		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 484

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82292

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
	[Dilatation TGLS = 3-8]		
	[Fibroadenoma TGLS = 1-21,2-22,4-23]		
Mesentery		Accessory Spleen	
	[Accessory Spleen TGLS = 9-24]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pituitary Gland		Adenoma	
	Pars Distalis		
	[Adenoma TGLS = 8-1]		
* Salivary Glands		Atrophy	Moderate
* Skin		Fibrosarcoma	
	Subcut Tiss		
	[Fibrosarcoma TGLS = 14-25]		
* Spleen		Pigmentation	Moderate
* Thymus		Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Minimal
		Polyp Stromal	
	[Hyperplasia TGLS = 10-7]		
	[Polyp Stromal TGLS = 10-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 486

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
	[Osteopetrosis TGLS = 9-24]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 6-6]		
	[Clear Cell Focus TGLS = 6-6]		
	[Mixed Cell Focus TGLS = 6-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 5-25]		
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[Hemorrhage TGLS = 3-5]		
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21,2-23]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[Adenoma TGLS = 10-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 486

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82248

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Mild

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLS = 8-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 487

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Angiectasis	Mild
	Basophilic Focus	
	Clear Cell Focus	
	Infiltration Cellular	Mixed Cell, Mild
	Mixed Cell Focus	
[Angiectasis TGLS = 5-6]		
[Basophilic Focus TGLS = 5-6]		
[Clear Cell Focus TGLS = 5-6]		
[Mixed Cell Focus TGLS = 5-6]		
* Lung	Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-2]		
* Mammary Gland	Dilatation	Minimal
	Fibroadenoma	Multiple
[Dilatation TGLS = 2-8]		
[Fibroadenoma TGLS = 1-21,3-23]		
* Pancreas	Atrophy	Minimal
* Spleen	Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 488

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Brain		Hydrocephalus	Mild
[Hydrocephalus TGLS = 9-1]			
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 5-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 6-6]			
[Clear Cell Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
Note: ADMIXTURE OF LYMPHOCYTES WITH HISTIOCYTES IN LUNG; NOT TABULATED.			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
[Dilatation TGLS = 2-8]			
[Fibroadenoma TGLS = 1-21,4-24,7-25]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 488

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82250

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 10-1]	Pars Distalis	Adenoma	
* Skin [Fibroma TGLS = 3-23] [Lymphoma Malignant TGLS = 8-26]	Subcut Tiss Subcut Tiss	Fibroma Lymphoma Malignant	
* Spleen		Pigmentation	Marked
* Urin Bladder Note: MINIMAL FIBROSIS IN SUBMUCOSA; NOT TABULATED.			
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 489

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Pancreas	* Parathyroid Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Marked
		Hypertrophy	Focal, Moderate
* Clitoral Gland		Atrophy	Mild
		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 8-6]		
	[Clear Cell Focus TGLS = 8-6]		
	[Hepatodiaphragmatic Nodule TGLS = 9-28]		
	[Mixed Cell Focus TGLS = 8-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 2-21,3-24,4-25,5-26,6-27]		
* Nose		Foreign Body	
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 489

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82251

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 10-1]

* Salivary Glands

Atrophy

Mild

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-21]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

* Thyroid Gland

C Cell

Adenoma

* Uterus

Hydrometra

Moderate

Hyperplasia

Cystic, Moderate

[Hydrometra TGLS = 7-7]

[Hyperplasia TGLS = 7-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/17/2014

Time Report Requested: 08:59:02

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 490

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Atrophy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 9-6]			
[Eosinophilic Focus TGLS = 9-6,17-33]			
[Hepatodiaphragmatic Nodule TGLS = 8-28,10-29]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 16-2]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 11-3]			
[Pigmentation TGLS = 11-3]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 7-5]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21,2-23,3-24,4-25,5-26,6-27]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-08

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

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Date Report Requested: 10/17/2014

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First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 490

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82252

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Pigmentation

Mild

Adenoma

* Urinary Bladder

Squamous Cell Papilloma

Multiple

Note: URINARY BLADDER PAPILOMA APPEARED TO HAVE EXTENDED INTO VAGINA. PAPILOMA HAS MARKED SQUAMOUS DIFFERENTIATION.

[Squamous Cell Papilloma TGLS = 12-30,15-32]

* Uterus

Polyp Stromal

Note: STROMAL POLYP IS ALSO PRESENT ON SLIDE 7.

[Polyp Stromal TGLS = 14-31]

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE