

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:49  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**C Number:** C62340D  
**Lock Date:** 03/08/1999  
**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: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82540

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Infiltration Cellular	Mixed Cell, Minimal
	Necrosis	Minimal
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Moderate
Mesentery	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney [ Nephropathy TGLS = 4-5 ]		Nephropathy	Mild
* Liver [ Hepatocellular Adenoma TGLS = 6-21 ] [ Vacuolization Cytoplasmic TGLS = 5-6 ]	Hepatocyte Hepatocyte	Hepatocellular Adenoma Syncytial Alteration Vacuolization Cytoplasmic	Focal, Minimal Diffuse, Moderate
* Preputial Gland [ Degeneration TGLS = 2-8 ]		Degeneration	Cystic, Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 98-82542
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Angiectasis	Moderate
	Clear Cell Focus	
	Infiltration Cellular	Mixed Cell, Minimal
	Lymphoma Malignant	
[ Angiectasis TGLS = 5-21 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]		
* Lymph Node, Mandibular	Lymphoma Malignant	
* Lymph Node, Mesenteric	Lymphoma Malignant	
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8 ]		
* Spleen	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-6 ]		
* Thymus	Lymphoma Malignant	
Tooth	Malformation	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]			
Mesentery		Inflammation	Chronic, Mild
	Fat	Necrosis	Mild
[ Inflammation TGLS = 1-24 ]			
[ Necrosis TGLS = 1-24 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 98-82543
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Necrosis	Focal, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Minimal
	[ Hepatocellular Adenoma TGLS = 3-22 ]		
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Cytoplasmic Alteration	Focal, Minimal
* Kidney	Nephropathy	Minimal
* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82546

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Intestine Small, Jejunum	Epithelium	Degeneration	Cystic, Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

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: 98-82411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
		Hepatocellular Adenoma	
	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
		Syncytial Alteration	Focal, Minimal
[ Hepatocellular Adenoma TGLS = 1-24 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Hyperplasia Nephropathy	Lymphoid, Mild Mild
* Liver		Clear Cell Focus Hepatocellular Carcinoma Infiltration Cellular Vacuolization Cytoplasmic	Mixed Cell, Minimal Focal, Minimal
	Hepatocyte		
Note: Equivocal slight deformity in shape of liver on slide 6 is only plausible microscopic correlate to small nodule reported grossly as TGL 2. [ Clear Cell Focus TGLS = 1-21 ] [ Hepatocellular Carcinoma TGLS = 3-22 ]			
Mesentery	Fat	Necrosis	Minimal
			[ Necrosis TGLS = 4-23 ]
* Spleen		Hematopoietic Cell Proliferation	Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 3-21 ]			
Mesentery	Artery	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Duct	Cyst	Marked
[ Atrophy TGLS = 2-7 ]			
[ Cyst TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Vacuolization Cytoplasmic TGLS = 2-21, 3-22 ]		
* Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82550

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Mild
[ Nephropathy TGLS = 5-5 ]			
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Moderate
[ Vacuolization Cytoplasmic TGLS = 2-6 ]			
* Preputial Gland		Degeneration	Cystic, Minimal
[ Degeneration TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

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: 98-82552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

\* Adren Medulla

Note: Adrenal medulla of one adrenal gland is missing; cortices of both adrenals are present.

\* Kidney

Nephropathy

Minimal

\* Liver

Hepatocellular Adenoma

Hepatocyte

Syncytial Alteration

Focal, Minimal

[ Hepatocellular Adenoma TGLS = 2-21 ]

\* Preputial Gland

Degeneration

Cystic, Moderate

[ Degeneration TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Congestion	Mild
		Nephropathy	Minimal
	[ Congestion TGLS = 6-5 ]		
* Liver		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Mild
	[ Hepatocellular Adenoma TGLS = 7-22, 8-23 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 4-24 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 5-7 ]		
* Thymus		Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLS = 2-3 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:49  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 16

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82412

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82553

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* Bone

\* Bone Marrow

\* Brain

\* Epididymis

\* Esophagus

\* Gallbladder

\* Heart

\* Intestine Large, Cecum

\* Intestine Large, Colon

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

\* Islets, Pancreatic

\* Liver

\* Lung

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Nose

\* Pancreas

\* 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

\* Parathyroid Gland

**OBSERVATIONS**

Harderian Gland

Carcinoma

[ Carcinoma TGLS = 1-21 ]

\* Kidney

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 618

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-81025

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Thymus
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**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Stomach, Glandular			

**OBSERVATIONS**

* Liver	Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 2-21, 3-22, 4-23 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 596

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-80748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Small, Duodenum                      \* Intestine Small, Ileum

OBSERVATIONS

* Epididymis		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
Time Report Requested: 01:19:49  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* 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	* Parathyroid Gland
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OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Infiltration Cellular	Mixed Cell, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

Ear	External Ear	Neural Crest Tumor, Malignant	
	[ Neural Crest Tumor, Malignant TGLS = 5-25 ]		
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Moderate
	[ Hepatocellular Adenoma TGLS = 2-23 ]		
	[ Hepatocellular Carcinoma TGLS = 3-24 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 4-2-1 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 6-26 ]		
* Preputial Gland		Degeneration	Cystic, Mild
	[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

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: 98-82555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 3-22 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 2-21 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 710

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Infiltration Cellular	Multiple Mixed Cell, Minimal
[ Hepatocellular Carcinoma TGLS = 3-21, 4-22 ]			
Lymph Node	Mediastinal	Sarcoma	Metastatic (Tissue Nos)
[ Sarcoma TGLS = 6-2 ]			
* Lymph Node, Mesenteric		Hemangiosarcoma	Metastatic (Spleen)
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 7-6 ]			
Tissue NOS	Thoracic	Sarcoma	
[ Sarcoma TGLS = 5-23 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Marked

Note: Inflamed periodontal tissue (slide 9) is packed with foreign matter (hair and food particles).

PRIMARY CAUSE OF DEATH - Tissue NOS Thoracic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 263

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-78207

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
Peripheral Nerve	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Vacuolization Cytoplasmic	Mild
* Liver	Hepatocyte	Fatty Change	Diffuse, Mild
* Lung		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Trachea

\* Adrenal Medulla  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Skin  
\* Testes

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Nose  
\* Prostate  
\* Spleen  
\* Thyroid Gland

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

Harderian Gland

[ Adenoma TGLS = 1-21 ]

\* Kidney

\* Liver

[ Hepatocellular Adenoma TGLS = 3-22 ]

\* Preputial Gland

[ Degeneration TGLS = 2-8 ]

Adenoma

Nephropathy

Hepatocellular Adenoma

Infiltration Cellular

Degeneration

Minimal

Mixed Cell, Minimal

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

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: 98-82558

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Kidney Nephropathy Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Intestine Small, Jejunum [ Adenocarcinoma TGLS = 3-24 ]	Adenocarcinoma	
* Kidney [ Cyst TGLS = 2-5 ]	Cyst Nephropathy	Mild Minimal
* Liver * Spleen [ Hematopoietic Cell Proliferation TGLS = 1-6 ]	Infiltration Cellular Hematopoietic Cell Proliferation	Mixed Cell, Minimal Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

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: 98-82559

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
[ Nephropathy TGLS = 1-5 ]			
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate
		Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]		
Tooth		Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 637

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-81771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Pituitary Gland	* Thymus
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OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
[ Nephropathy TGLS = 5-5 ]			
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	Hepatocyte	Syncytial Alteration	Focal, Minimal
[ Hepatocellular Adenoma TGLS = 2-6 ]			
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 3-8 ]			
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 1-22 ]		
* Nose	Sinus	Foreign Body	Moderate
	Sinus	Inflammation	Suppurative, Chronic, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
Harderian Gland		Adenoma	
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Marked Minimal
[ Accumulation, Hyaline Droplet TGLS = 4-5 ]			
* Liver		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 8-25 ]			
[ Lymphoma Malignant TGLS = 6-23 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-24 ]			
Mesentery		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Skin		Ulcer	Chronic, Focal, Mild
[ Ulcer TGLS = 1-21, 2-22 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:49

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 33

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82561

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

[ Lymphoma Malignant TGLS = 3-6 ]

Lymphoma Malignant

\* Thymus

[ Lymphoma Malignant TGLS = 9-2 ]

Lymphoma Malignant

\* Thyroid Gland

Degeneration

Cystic, Focal, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

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: 98-82417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

OBSERVATIONS

- |  |                        |                     |
|--|------------------------|---------------------|
| * Adren Cortex                         |                        |                     |
| Note: One adrenal gland is missing.    |                        |                     |
| Note: One adrenal gland is missing.    |                        |                     |
| Harderian Gland                        | Adenoma                |                     |
| [ Adenoma TGLS = 3-25 ]                |                        |                     |
| * Kidney                               | Nephropathy            | Minimal             |
| * Liver                                | Congestion             | Focal, Mild         |
|  | Hepatocellular Adenoma |                     |
|  | Infiltration Cellular  | Mixed Cell, Minimal |
| [ Hepatocellular Adenoma TGLS = 2-24 ] |                        |                     |
| * Preputial Gland                      | Degeneration           | Cystic, Moderate    |
| [ Degeneration TGLS = 1-8 ]            |                        |                     |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82562

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Congestion	Minimal
		Nephropathy	Minimal
[ Congestion TGLS = 3-5 ]			
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Moderate
[ Vacuolization Cytoplasmic TGLS = 4-6 ]			
* Lung		Alveolar/Bronchiolar Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid 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

* Intestine Small, Jejunum	Epithelium	Hyperplasia	Adenomatous, Focal, Moderate
Note: Lesion of the jejunum includes adenomyosis with some cystic change in included glandular elements.			
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-1 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-2 ]		
Tooth	Malformation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Adrenal Medulla  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Nose  
\* Prostate  
\* Spleen  
\* Thymus

MISSING

\* Mammary Gland

\* Pituitary Gland

OBSERVATIONS

\* Kidney

Congestion  
Cyst  
Nephropathy

Mild  
Mild  
Minimal

[ Congestion TGLS = 2-5 ]

[ Cyst TGLS = 2-5 ]

\* Liver

Hepatocellular Adenoma

[ Hepatocellular Adenoma TGLS = 3-21 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Cytoplasmic Alteration	Focal, Minimal
* Bone Marrow	Mast Cell Tumor Malignant	
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
	Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 3-21 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8 ]		
* Spleen	Hemangioma	
	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 1-6 ]		
* Thymus	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Hemangiosarcoma Infiltration Cellular	Mixed Cell, Minimal
[ Hemangiosarcoma TGLS = 2-21 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Intestine Small, Duodenum		Hemangiosarcoma	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Kidney	Artery	Inflammation Nephropathy	Chronic, Mild Mild
* Liver	Hepatocyte	Eosinophilic Focus Hepatocellular Adenoma Syncytial Alteration	Multiple Focal, Minimal
[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]			
Mesentery	Artery	Inflammation	Chronic, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Skin	Artery, Subcut Tiss	Inflammation	Chronic, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
[ Hyperplasia TGLS = 4-23 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 649

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-81772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Gallbladder	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Pancreas	* Stomach, Glandular	* Urinary Bladder	

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Mild
[ Hepatocellular Carcinoma TGLS = 3-21 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]			
Tissue NOS	Thoracic	Sarcoma	Multiple
Note: Sarcomas are in the thoracic cavity and are not located external to that cavity.			
[ Sarcoma TGLS = 1-22 ]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma;Tissue NOS Thoracic Sarcoma

Animal Note: Foreign matter (especially hairs) in abdominal cavity (slide 5) indicates that a nimal was partially cannibalized.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Necrosis	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 2-24, 3-25, 4-26 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-23 ]		
	[ Hyperplasia TGLS = 1-23 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Degeneration	Cystic, Moderate

[ Degeneration TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82422

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* 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**

* Kidney	Nephropathy	Minimal
* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric	Hemorrhage	Minimal
[ Hemorrhage TGLS = 1-5 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

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: 98-82568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Moderate
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 48	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 98-82569
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8 ]			
[ Inflammation TGLS = 1-8 ]			
* Stomach, Forestomach	Epithelium	Cyst	Minimal
	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82423

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thymus		Cyst	Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Congestion Nephropathy	Mild Minimal
[ Congestion TGLS = 4-5 ]			
* Liver		Infiltration Cellular Mixed Cell Focus	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 2-7 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82571

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:49

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 52

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82424

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Adrenal Medulla  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

\* Kidney  
\* Liver

Nephropathy  
Infiltration Cellular

Minimal  
Mixed Cell, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-80749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Artery	Inflammation Nephropathy	Chronic, Moderate Minimal
* Liver		Congestion Infiltration Cellular Tension Lipidosis	Focal, Mild Mixed Cell, Mild Minimal
	Hepatocyte		
[ Congestion TGLS = 2-6 ]			
Mesentery	Artery	Inflammation	Chronic, Moderate
* Skin	Artery, Subcut Tiss	Inflammation	Chronic, Moderate
Note: Artery showing inflammation is adjacent to trachea and thyroid gland.			
* Spleen		Depletion Cellular Pigmentation	Mild Focal, Moderate
[ Depletion Cellular TGLS = 1-6 ]			
[ Pigmentation TGLS = 1-6 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 719

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular
* Thyroid Gland			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Fatty Change Hepatoblastoma	Moderate
[ Hepatoblastoma TGLS = 3-21 ]			
Lymph Node	Mediastinal	Hemorrhage	Mild
[ Hemorrhage TGLS = 4-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Liver Hepatoblastoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 1-22 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-21 ]			
* Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Intestine Small, Jejunum [ Carcinoma TGLS = 2-21 ]		Carcinoma	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Bronchus, Glands	Cyst	Mild
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 1-7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Mammary Gland
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OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Mild
[ Hepatocellular Carcinoma TGLS = 1-24 ]		
* Parathyroid Gland		
Note: Parathyroid gland is on slide 2, embedded in thymus.		
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Degeneration	Cystic, Focal, Minimal
Tooth	Peridont Tiss Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Gallbladder

OBSERVATIONS

* Kidney	Congestion Nephropathy	Minimal Mild
[ Congestion TGLS = 3-5 ]		
* Liver	Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Carcinoma TGLS = 5-21 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
		Histiocytic Sarcoma	
Note: Carcinoma of preputial gland is poorly differentiated; but tumor's cells have nuclei and vacuolated cytoplasm like normal epithelial cells of that gland.			
		[ Degeneration TGLS = 2-8 ]	
		[ Histiocytic Sarcoma TGLS = 1-8 ]	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
Tooth		Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Heart		Inflammation	Chronic, Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 3 <b>DOSE:</b> 1250 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 98-82675
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ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 3-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLS = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Cyst	Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 542

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Preputial Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
Note: Bone marrow hyperplasia is granulocytic type.			
* Kidney		Nephropathy	Mild
* Liver	Centrilobular, Hepatocyte	Fatty Change	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Mild
* Lung		Hemangiosarcoma	Metastatic (Uncertain Primary Site)
[ Hemangiosarcoma TGLS = 5-2 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 8-7 ]			
* Skin	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Hemangiosarcoma	
[ Edema TGLS = 1-8 ]			
[ Hemangiosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:49

**First Dose M/F:** NA / NA

**Lab:** SRI

---

**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 542

**DOSE:** 1250 PPM

**DISP:** Natural Death

**HISTO:** 97-80077

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Cyst	Minimal
* Kidney		Congestion	Mild
		Nephropathy	Minimal
[ Congestion TGLS = 3-5 ]			
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Mild
[ Hepatocellular Carcinoma TGLS = 4-21 ]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 5-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 65	<b>TRT#:</b> 3 <b>DOSE:</b> 1250 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 98-82432
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Ileum [ Carcinoma TGLS = 1-21 ]		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
Mesentery [ Hemangiosarcoma TGLS = 2-23 ]		Hemangiosarcoma	
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 559

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum
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OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 2-21 ]		Carcinoma	
* Intestine Small, Jejunum [ Hyperplasia TGLS = 3-22 ]	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
	Hepatocyte	Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 4-23 ]	Syncytial Alteration	Focal, Minimal
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-82678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
[ Pigmentation TGLS = 5-5 ]			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hemangiosarcoma	Multiple
		Hepatoblastoma	
		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Mild
[ Hemangiosarcoma TGLS = 6-22 ]			
* Seminal Vesicle		Dilatation	Mild
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 655

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-81881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

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

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Stomach, Glandular		

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Carcinoma	
	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
	[ Hepatocellular Carcinoma TGLS = 3-22 ]	Syncytial Alteration	Focal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Mild
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 630

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Colon	* Intestine Large, Rectum	* Lymph Node, Mesenteric	* Mammary Gland
* Thymus			

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Intestine Large, Cecum	Epithelium	Degeneration	Mucoid, Moderate
Note: Cecum has intussusception, a morphology not included among available TDMS terms. [ Degeneration TGLS = 6-22 ]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
		Necrosis	Minimal
[ Hepatocellular Carcinoma TGLS = 3-21 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 2-2 ]			

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 633

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Fatty Change	Mild
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Mild
	[ Hepatocellular Adenoma TGLS = 4-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
Skeletal Muscle		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 6-22 ]		
* Skin	Subcut Tiss	Edema	Mild
	[ Edema TGLS = 7-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 641

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Medulla  
\* Epididymis  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Glandular  
\* Trachea

\* Bone  
\* Esophagus  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Testes  
\* Urinary Bladder

\* Bone Marrow  
\* Intestine Large, Rectum  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Skin  
\* Thymus

\* Brain  
\* Islets, Pancreatic  
\* Nose  
\* Prostate  
\* Stomach, Forestomach  
\* Thyroid Gland

MISSING

\* Gallbladder  
\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Large, Cecum  
\* Intestine Small, Jejunum  
\* Intestine Large, Colon  
\* Intestine Small, Duodenum  
\* Intestine Small, Ileum

OBSERVATIONS

\* Adrenal Cortex  
\* Heart  
\* Kidney  
\* Liver  
[ Hemangiosarcoma TGLS = 4-6 ]  
\* Preputial Gland  
[ Degeneration TGLS = 1-8 ]  
\* Spleen  
[ Hemangiosarcoma TGLS = 3-6 ]  
Accessory Adrenal Cortical Nodule  
Hemangiosarcoma  
Atrophy  
Inflammation  
Pigmentation  
Hemangiosarcoma  
Infiltration Cellular  
Necrosis  
Degeneration  
Hemangiosarcoma  
Minimal  
Focal, Mild  
Chronic, Focal, Mild  
Mild  
Multiple  
Mixed Cell, Mild  
Mild  
Cystic, Moderate

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Centrilobular, Hepatocyte	Depletion Glycogen	Mild
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Depletion Glycogen TGLS = 2-21 ]		
	[ Hepatocellular Adenoma TGLS = 1-21 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 710

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Prostate

OBSERVATIONS

* Intestine Large, Cecum		Carcinoma	
* Kidney		Nephropathy	Marked
* Liver		Hepatocellular Carcinoma	Multiple
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 3-21, 4-22, 5-23 ]		
* Nose	Nasolacrimal Dct	Inflammation	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8, 2-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Kidney		Cyst	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
		Degeneration	Cystic, Moderate
* Preputial Gland			
[ Degeneration TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Ileum	* Mammary Gland
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INSUFFICIENT TISSUE

* Thymus
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OBSERVATIONS

* Kidney		Cyst	Mild
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]		
	[ Hepatocellular Carcinoma TGLS = 4-23 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Skin	Sebaceous Gland	Carcinoma	
	Note: Sebaceous gland carcinoma of tail skin is poorly differentiated, but numerous tumor cells have vacuolated cytoplasm typical of sebaceous cells.		
	[ Carcinoma TGLS = 5-24 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 75

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82682

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 572

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Stomach, Glandular		

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Bone		Fracture	Moderate
[ Fracture TGLS = 5-9 ]			
* Bone Marrow		Hemorrhage	Focal, Moderate
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Necrosis	Mild
[ Necrosis TGLS = 8-23 ]		Syncytial Alteration	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 7-24 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-21 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 6-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 76

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 572

**DOSE:** 1250 PPM

**DISP:** Natural Death

**HISTO:** 97-80478

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**PRIMARY CAUSE OF DEATH**

- Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 77

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 545

**DOSE:** 1250 PPM

**DISP:** Natural Death

**HISTO:** 97-80135

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Intestine Large, Colon	* Lymph Node, Mesenteric	* Mammary Gland	
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**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Stomach, Glandular			

**OBSERVATIONS**

* Intestine Large, Cecum [ Carcinoma TGLS = 4-21 ]	Carcinoma	
* Preputial Gland [ Degeneration TGLS = 1-8 ]	Degeneration	Cystic, Moderate
* Spleen [ Depletion Cellular TGLS = 2-6 ]	Depletion Cellular	Marked
* Thymus [ Atrophy TGLS = 3-3 ]	Atrophy	Moderate

**PRIMARY CAUSE OF DEATH**

- Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 6-4 ]		Carcinoma	
* Kidney  [ Congestion TGLS = 3-5 ]		Congestion Cyst Nephropathy	Mild Minimal Minimal
* Liver  [ Hepatocellular Carcinoma TGLS = 7-22 ]		Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Mild
* Lung * Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hepatocellular Carcinoma Hematopoietic Cell Proliferation	Metastatic (Liver) Moderate
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Adenoma TGLS = 3-23, 4-24 ]		
	[ Hepatocellular Carcinoma TGLS = 1-21, 2-22 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 485

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Gallbladder	* Heart	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone Marrow		Depletion Cellular	Mild
Note: Cell depletion affects mainly cells of erythroid series.			
* Int Sm Ileum			
Note: Ileum shows dilatation (ectasia), but neither term is available in TDMS as diagnosis for this study. TGL = 4-4.			
* Int Sm Jejunum			
Note: Jejunum shows dilatation (ectasia), but neither term is available as a diagnostic term in TDMS for this study. TGL = 3-3.			
* Intestine Large, Cecum		Carcinoma	
[ Carcinoma TGLS = 5-21, 6-4 ]			
* Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Minimal
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Spleen		Depletion Cellular	Moderate
[ Depletion Cellular TGLS = 2-6 ]			
* Thymus		Atrophy	Moderate
[ Atrophy TGLS = 7-2 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH - Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 80

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 485

**DOSE:** 1250 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-79444

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Mammary Gland
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OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Heart		Infiltration Cellular	Mixed Cell, Minimal
* Intestine Large, Cecum		Carcinoma	
[ Carcinoma TGLS = 3-4 ]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Inflammation	Chronic, Focal, Mild
Mesentery		Inflammation	Chronic, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 1-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Spleen	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cyst	Minimal
* Kidney		Cyst	Mild
		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Mild
* Skin	Subcut Tiss	Hemangioma	
[ Hemangioma TGLS = 1-21 ]			
* Stomach, Glandular		Inflammation	Chronic, Focal, Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hemorrhage	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Histiocytic, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-82688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Stomach, Glandular		

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Histiocytic Sarcoma	
		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
		Histiocytic Sarcoma	
		Necrosis	Moderate
		[ Hepatocellular Carcinoma TGLS = 6-6 ]	
		[ Histiocytic Sarcoma TGLS = 6-6 ]	
* Lung		Histiocytic Sarcoma	
Lymph Node	Pancreatic	Hemorrhage	Mild
	Pancreatic	Histiocytic Sarcoma	
		[ Hemorrhage TGLS = 7-7 ]	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
		[ Degeneration TGLS = 2-8 ]	
		[ Inflammation TGLS = 3-8 ]	
* Skin	Subcut Tiss	Edema	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 84	<b>TRT#:</b> 3 <b>DOSE:</b> 1250 PPM	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 726 <b>HISTO:</b> 98-82688
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Edema TGLS = 1-8 ] * Spleen	Hematopoietic Cell Proliferation Histiocytic Sarcoma	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ] [ Histiocytic Sarcoma TGLS = 5-6 ]		

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PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* 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	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
[ Hepatocellular Adenoma TGLS = 1-21 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 604

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-81026

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Intestine Large, Cecum [ Carcinoma TGLS = 2-21 ]	Carcinoma	
* Kidney	Nephropathy	Minimal
* Lymph Node, Mesenteric [ Carcinoma TGLS = 1-5 ]	Carcinoma	Metastatic (Intestine Large, Cecum)
* Spleen [ Depletion Cellular TGLS = 5-6 ]	Depletion Cellular	Moderate

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 469

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79265

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mesenteric	* Pancreas

**OBSERVATIONS**

* Lung		Alveolar/Bronchiolar Adenoma	
* Spleen		Depletion Cellular	Marked
[ Depletion Cellular TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Thymus		Atrophy	Marked
[ Atrophy TGLS = 3-2 ]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Hyperplasia	Lymphoid, Mild
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Mild
	[ Eosinophilic Focus TGLS = 2-22 ]		
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 717

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-82691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Urinary Bladder

\* Adrenal Medulla  
\* Epididymis  
\* Intestine Large, Colon  
\* Islets, Pancreatic  
\* Nose  
\* Preputial Gland  
\* Testes

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Thyroid Gland

\* Bone Marrow  
\* Gallbladder  
\* Intestine Small, Duodenum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Trachea

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Large, Cecum

\* Intestine Small, Ileum

\* Stomach, Glandular

OBSERVATIONS

\* Kidney

Renal Tubule

Inflammation

Suppurative, Moderate

Necrosis

Moderate

Nephropathy

Moderate

Pigmentation

Moderate

[ Inflammation TGLS = 2-5 ]

[ Nephropathy TGLS = 2-5 ]

\* Liver

Hepatocellular Carcinoma

Infiltration Cellular

Mixed Cell, Moderate

Necrosis

Moderate

Syncytial Alteration

Focal, Minimal

Hepatocyte

[ Hepatocellular Carcinoma TGLS = 5-23 ]

[ Necrosis TGLS = 6-6 ]

Mesentery

Hemangiosarcoma

Inflammation

Chronic, Mild

[ Hemangiosarcoma TGLS = 4-22 ]

\* Parathyroid GI

Note: Parathyroid gland, present on slide 3, is distorted by artifact.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 89	<b>TRT#:</b> 3 <b>DOSE:</b> 1250 PPM	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 717 <b>HISTO:</b> 98-82691
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<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
* Skin	Subcut Tiss	Hemangiosarcoma	
	Subcut Tiss	Inflammation	Chronic, Focal, Mild
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Cyst	Mild

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<b>PRIMARY CAUSE OF DEATH</b>	- Mesentery	Hemangiosarcoma	
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 526

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Intestine Large, Rectum  
\* Nose  
\* Seminal Vesicle  
\* Thymus

\* Adrenal Medulla  
\* Epididymis  
\* Islets, Pancreatic  
\* Pituitary Gland  
\* Skin  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Lymph Node, Mandibular  
\* Prostate  
\* Stomach, Forestomach  
\* Trachea

\* Bone Marrow  
\* Heart  
\* Lymph Node, Mesenteric  
\* Salivary Glands  
\* Testes  
\* Urinary Bladder

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Large, Cecum  
\* Intestine Small, Jejunum

\* Intestine Large, Colon

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

OBSERVATIONS

\* Gallbladder  
[ Fibrosis TGLS = 5-22 ]  
\* Kidney

Fibrosis

Moderate

[ Atrophy TGLS = 4-21 ]  
[ Fibrosis TGLS = 4-21 ]  
[ Inflammation TGLS = 4-21 ]

Amyloid Deposition  
Atrophy  
Fibrosis  
Inflammation  
Nephropathy

Marked  
Marked  
Focal, Marked  
Chronic, Marked  
Marked

\* Liver  
[ Amyloid Deposition TGLS = 3-6 ]  
[ Fibrosis TGLS = 5-22, 6-23 ]

Amyloid Deposition  
Fibrosis  
Infiltration Cellular  
Inflammation  
Inflammation  
Necrosis

Marked  
Focal, Moderate  
Mixed Cell, Moderate  
Chronic, Focal, Moderate  
Suppurative, Focal, Mild  
Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 3 <b>DOSE:</b> 1250 PPM	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 526 <b>HISTO:</b> 97-79992
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lung	Infiltration Cellular	Mixed Cell, Moderate
* Pancreas	Amyloid Deposition	Mild
* Parathyroid Gland	Amyloid Deposition	Mild
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		
* Spleen	Amyloid Deposition	Moderate
[ Amyloid Deposition TGLS = 2-6 ]	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Glandular	Inflammation	Focal, Mild

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**PRIMARY CAUSE OF DEATH**                      - Kidney    Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 641

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* 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	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 2-21 ]	Carcinoma	
* Kidney [ Infarct TGLS = 4-5 ]	Infarct Inflammation	Moderate Suppurative, Focal, Moderate
* Liver [ Hepatocellular Adenoma TGLS = 5-22 ]	Hepatocellular Adenoma Infiltration Cellular	Mixed Cell, Moderate
* Preputial Gland [ Degeneration TGLS = 1-8 ]	Degeneration Inflammation	Cystic, Moderate Chronic, Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]	Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Harderian Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82433

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Lung	Inflammation	Chronic, Focal, Mild
Mesentery [ Hemangiosarcoma TGLS = 1-21 ]	Hemangiosarcoma	
* Spleen	Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 8-24 ]	Carcinoma	
* Kidney [ Congestion TGLS = 4-5 ]	Congestion Nephropathy	Minimal Mild
* Liver Hepatocyte [ Eosinophilic Focus TGLS = 7-23, 9-25 ] [ Hepatocellular Adenoma TGLS = 5-21, 6-22 ]	Eosinophilic Focus Hepatocellular Adenoma Infiltration Cellular Syncytial Alteration	Multiple Mixed Cell, Mild Focal, Minimal
* Preputial Gland [ Degeneration TGLS = 1-8, 2-8 ]	Degeneration	Cystic, Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland	* Thymus
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OBSERVATIONS

* Adren Cortex Note: One adrenal gland is missing.		
* Kidney [ Nephropathy TGLS = 3-5 ]	Nephropathy	Mild
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 4-5 ]	Hematopoietic Cell Proliferation Hemorrhage	Moderate Moderate
Skeletal Muscle [ Hemangiosarcoma TGLS = 1-21 ]	Hemangiosarcoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Bone	Cranium	Osteoma	
[ Osteoma TGLS = 1-21.1 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-23 ]		Infiltration Cellular	Mixed Cell, Mild
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	Follicular Cel	Degeneration	Cystic, Focal, Minimal
		Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Hepatocellular Adenoma	
	Infiltration Cellular	Mixed Cell, Minimal
	Necrosis	Minimal
[ Hepatocellular Adenoma TGLS = 2-6 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 690

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-22 ]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Duct	Cyst	Marked
	Duct	Inflammation	Chronic, Focal, Moderate
[ Cyst TGLS = 1-21 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

- Pancreas Duct Cyst

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 575

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-80479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Testes

- \* Adrenal Medulla
- \* Epididymis
- \* Kidney
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Thymus

- \* Bone
- \* Esophagus
- \* Lung
- \* Pancreas
- \* Prostate
- \* Stomach, Forestomach
- \* Trachea

- \* Bone Marrow
- \* Heart
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Gallbladder
- \* Intestine Large, Rectum

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adren Cortex
  - Note: One adrenal gland is missing.
- \* Intestine Large, Cecum
  - [ Carcinoma TGLS = 2-21 ]
- \* Liver
  - [ Depletion Cellular TGLS = 1-6 ]
- \* Spleen
- \* Thyroid Gland

- Carcinoma
- Eosinophilic Focus
- Depletion Cellular
- Marked
- Degeneration
- Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Mineralization	Focal, Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 3-23 ]		
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lung		Hyperplasia	Histiocytic, Mild
	[ Hyperplasia TGLS = 2-22 ]		
Mesentery	Artery	Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* 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	* Parathyroid Gland
-----------------	---------------------

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	
	Eosinophilic Focus	
	Infiltration Cellular	Mixed Cell, Minimal

[ Eosinophilic Focus TGLS = 1-21 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 592

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Kidney
- \* Liver

Nephropathy  
 Congestion  
 Infiltration Cellular  
 Squamous Cell Carcinoma

Minimal  
 Focal, Mild  
 Mixed Cell, Mild

Oral Mucosa                      Pharyngeal

[ Squamous Cell Carcinoma TGLS = 2-21 ]

PRIMARY CAUSE OF DEATH

- Oral Mucosa Pharyngeal Squamous Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

* Bone Marrow Note: Hyperplasia of bone marrow is of the granulocytic type.	Hyperplasia	Mild
* Kidney	Hyperplasia Nephropathy	Lymphoid, Minimal Minimal
* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 3-22 ]	Alveolar/Bronchiolar Adenoma	
Mesentery [ Hemangiosarcoma TGLS = 1-21 ]	Hemangiosarcoma	
* Preputial Gland [ Degeneration TGLS = 2-8 ]	Degeneration	Cystic, Moderate
* Thyroid Gland	Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 460

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Preputial Gland	Degeneration	Cystic, Marked
[ Degeneration TGLS = 1-8-1 ]		
* Spleen	Depletion Cellular	Marked
[ Depletion Cellular TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
		Degeneration	Cystic, Moderate
* Preputial Gland			
[ Degeneration TGLS = 1-8 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 688

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-82700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
Note: Bone marrow hyperplasia is of the granulocytic type.			
* Intestine Large, Cecum		Carcinoma	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Marked
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Mild
			[ Necrosis TGLS = 4-6 ]
* Lung		Carcinoma	Metastatic (Intestine Large, Cecum)
		Infiltration Cellular	Mixed Cell, Moderate
Lymph Node	Mediastinal	Hyperplasia	Moderate
Mesentery		Carcinoma	Metastatic (Intestine Large, Cecum)
			[ Carcinoma TGLS = 2-21 ]
* Spleen		Hematopoietic Cell Proliferation	Marked
			[ Hematopoietic Cell Proliferation TGLS = 1-6 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 105

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 1250 PPM

**DISP:** Natural Death

**HISTO:** 98-82700

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Mesentery Carcinoma Intestine Large;Cecum

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82701

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82702

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Preputial Gland	Degeneration	Cystic, Moderate
	Inflammation	Chronic, Marked

[ Inflammation TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
	Renal Tubule	Nephropathy	Mild
* Liver		Pigmentation	Mild
		Eosinophilic Focus	
		Hemangiosarcoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Moderate
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Eosinophilic Focus TGLS = 8-27 ]		
	[ Hemangiosarcoma TGLS = 1-21, 5-25, 6-6, 7-26, 8-27 ]		
	[ Necrosis TGLS = 7-26 ]		
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
	[ Hemorrhage TGLS = 12-2 ]		
	[ Pigmentation TGLS = 12-2 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[ Hemorrhage TGLS = 9-5 ]		
Mesentery		Hemangiosarcoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 108	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 98-82427

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hemangiosarcoma TGLS = 2-23 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 10-8 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 11-28 ]			
* Spleen		Hemangiosarcoma Hematopoietic Cell Proliferation	Moderate
[ Hemangiosarcoma TGLS = 3-24, 4-6 ]			
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Heart		Hemangiosarcoma	
* Kidney		Nephropathy	Mild
[ Nephropathy TGLS = 3-5 ]			
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
[ Hepatocellular Adenoma TGLS = 5-21, 6-22 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
Note: Lung lesion is a malignant lesion (carcinoma) within a benign lesion (adenoma).			
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-23 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 686

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-82704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hemangiosarcoma	
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Mild
[ Hemangiosarcoma TGLS = 3-6-1 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
Tooth	Peridont Tiss	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 2-22, 3-23 ]		
	Mesentery	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

OBSERVATIONS

- |  |            |                                  |                  |
|--|------------|----------------------------------|------------------|
| * Bone Marrow                                  |            | Hemangiosarcoma                  |                  |
| Eye  |            | Atrophy                          | Moderate         |
| [ Atrophy TGLS = 3-44 ]                        |            |                                  |                  |
| Harderian Gland                                |            | Adenoma                          |                  |
| [ Adenoma TGLS = 2-21 ]                        |            |                                  |                  |
| * Kidney                                       |            | Nephropathy                      | Mild             |
| * Liver  |            | Hepatocellular Adenoma           |                  |
|  |            | Hepatocellular Carcinoma         | Multiple         |
|  |            | Infiltration Cellular            | Mixed Cell, Mild |
|  | Hepatocyte | Syncytial Alteration             | Focal, Minimal   |
| [ Hepatocellular Carcinoma TGLS = 4-22, 5-23 ] |            |                                  |                  |
| * Preputial Gland                              |            | Degeneration                     | Cystic, Moderate |
| [ Degeneration TGLS = 1-8 ]                    |            |                                  |                  |
| * Spleen                                       |            | Hematopoietic Cell Proliferation | Moderate         |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Atrophy	Focal, Moderate
		Fibrosis	Focal, Moderate
		Hyperplasia	Lymphoid, Mild
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 1-21, 2-6 ]		
	[ Hepatocellular Carcinoma TGLS = 3-22 ]		
* Lung		Inflammation	Chronic, Focal, Mild
	[ Inflammation TGLS = 4-2-1 ]		
* Parathyroid Gland			
	Note: Sample of parathyroid gland tissue is small, but histologically normal.		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 690

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-82708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Colon
* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder	Zymbal's Gland		

MISSING

* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Bone Marrow	Thrombosis	Moderate
* Intestine Large, Cecum	Carcinoma	
[ Carcinoma TGLS = 2-21 ]		
* Kidney	Nephropathy	Minimal
* Liver	Necrosis	Mild
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 5-2-1 ]	Infiltration Cellular	Mixed Cell, Mild
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thymus	Cyst	Mild

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82709

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**INSUFFICIENT TISSUE**

\* Thyroid Gland

**OBSERVATIONS**

* Kidney [ Nephropathy TGLS = 2-5 ]	Nephropathy	Mild
* Liver Hepatocyte	Infiltration Cellular Syncytial Alteration	Mixed Cell, Minimal Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland	* Thymus
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OBSERVATIONS

* Intestine Small, Jejunum	Peyers Patch	Inflammation Inflammation Ulcer	Chronic, Marked Focal, Marked Marked
[ Inflammation TGLS = 5-21 ]			
[ Inflammation TGLS = 5-21 ]			
[ Ulcer TGLS = 5-21 ]			
* Kidney		Nephropathy	Minimal
[ Nephropathy TGLS = 3-5 ]			
* Liver		Eosinophilic Focus Infiltration Cellular Syncytial Alteration	Mixed Cell, Minimal Focal, Minimal
	Hepatocyte	Alveolar/Bronchiolar Adenoma	
* Lung		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Moderate
* Spleen			
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	
	Infiltration Cellular	Mixed Cell, Minimal
* Preputial Gland	Degeneration	Cystic, Moderate
	Inflammation	Chronic, Moderate

[ Degeneration TGLS = 1-8 ]

[ Inflammation TGLS = 2-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adren Cortex			
Note: Tissue of one adrenal gland is insufficient for reliable diagnosis.			
* Intestine Large, Cecum		Carcinoma	
[ Carcinoma TGLS = 4-22 ]			
* Kidney		Nephropathy	Mild
[ Nephropathy TGLS = 2-5 ]			
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Syncytial Alteration	Focal, Minimal
[ Hepatocellular Adenoma TGLS = 3-21 ]			
* Pituitary Gland	Rathkes Cleft	Cyst	Moderate
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 3

SEX: Male

DAY ON TEST: 451

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |  |                                  |                     |
|--|----------------------------------|---------------------|
| * Kidney                                 | Nephropathy                      | Minimal             |
| * Liver                                  | Hepatocellular Adenoma           |                     |
|  | Hepatocellular Carcinoma         |                     |
|  | Infiltration Cellular            | Mixed Cell, Minimal |
| [ Hepatocellular Adenoma TGLS = 2-22 ]   |                                  |                     |
| [ Hepatocellular Carcinoma TGLS = 1-21 ] |                                  |                     |
| * Spleen                                 | Hematopoietic Cell Proliferation | Moderate            |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
Time Report Requested: 01:19:50  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 463

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-79251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Urinary Bladder			

OBSERVATIONS

* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Congestion	Moderate
* Spleen		Depletion Cellular	Marked
[ Depletion Cellular TGLS = 1-6 ]			
* Thyroid Gland	C Cell	Carcinoma	
[ Carcinoma TGLS = 2-3 ]			

PRIMARY CAUSE OF DEATH

- Thyroid Gland C Cell Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 596

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

INSUFFICIENT TISSUE

\* Stomach, Forestomach

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Moderate
Mesentery		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 2-21, 3-7, 3-22 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 5-8 ]		
* Prostate		Hemangiosarcoma	
		Inflammation	Chronic, Marked
	[ Hemangiosarcoma TGLS = 3-7 ]		
	[ Inflammation TGLS = 3-7 ]		
* Seminal Vesicle		Inflammation	Chronic, Moderate
Skeletal Muscle		Hemangiosarcoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 121	<b>TRT#:</b> 5 <b>DOSE:</b> 2500 PPM	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 596 <b>HISTO:</b> 97-80776
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hemangiosarcoma TGLS = 6-24 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Minimal
PRIMARY CAUSE OF DEATH	- Mesentery	Hemangiosarcoma	

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 531

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Stomach, Glandular		

OBSERVATIONS

* Adrenal Cortex [ Fibrosis TGLS = 4-23 ]		Fibrosis	Mild
* Heart		Infiltration Cellular	Mixed Cell, Minimal
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Moderate
Skeletal Muscle [ Hemangiosarcoma TGLS = 1-21, 2-22 ]		Hemangiosarcoma	Multiple
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 572

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Mild
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 5-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
Time Report Requested: 01:19:50  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 303

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-78205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Syncytial Alteration	Focal, Mild
* Thymus			

Note: Part of thymus is on slide #3, adjacent to thyroid gland.

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 556

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* 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	Peripheral Nerve	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Large, Cecum	Carcinoma	
* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Carcinoma	
	Necrosis	Mild
[ Hepatocellular Carcinoma TGLS = 1-21 ]		
Mesentery	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-22 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
Note: TGL 5-8 also includes mild hemorrhage. "Hemorrhage" is not an available TDMS term for preputial gland in this study.		
[ Degeneration TGLS = 5-8 ]		
Skeletal Muscle	Hemorrhage	Focal, Mild
[ Hemorrhage TGLS = 4-23 ]		
* Spleen	Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Thymus	Cyst	Mild

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 533

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Heart		Inflammation	Chronic, Focal, Moderate
		Thrombosis	Moderate
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Mixed Cell, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 517

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

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

* Liver	Hepatocyte	Necrosis Syncytial Alteration Congestion Hemangiosarcoma	Mild Focal, Minimal Moderate
* Lung Mesentery [ Hemangiosarcoma TGLS = 3-21 ]		Inflammation	Chronic, Moderate
* Preputial Gland [ Inflammation TGLS = 1-8 ]		Hematopoietic Cell Proliferation	Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 556

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Heart		Inflammation Mineralization Carcinoma	Chronic, Focal, Mild Mild
* Intestine Large, Cecum [ Carcinoma TGLS = 6-24 ]			
* Kidney	Renal Tubule	Nephropathy Pigmentation Hepatocellular Carcinoma Infiltration Cellular	Minimal Mild Multiple Mixed Cell, Moderate
* Liver [ Hepatocellular Carcinoma TGLS = 3-22, 4-23 ]			
* Lung Mesentery [ Hemangiosarcoma TGLS = 5-7 ]		Infiltration Cellular Hemangiosarcoma	Mixed Cell, Minimal
* Prostate [ Hemangiosarcoma TGLS = 5-7 ]		Hemangiosarcoma	
Skeletal Muscle [ Hemangiosarcoma TGLS = 1-21 ]		Hemangiosarcoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 128

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 556

**DOSE:** 2500 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-80163

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 564

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80481

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**AUTO PRECLUDES DIAG.**

\* Gallbladder

**OBSERVATIONS**

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	
	Hepatocyte	Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 8-23, 10-25, 11-26 ]	Syncytial Alteration	Focal, Mild
* Lung		Hemangiosarcoma	Metastatic (Mesentery)
	[ Hemangiosarcoma TGLS = 6-2 ]		
Lymph Node	Mediastinal	Hemangiosarcoma	Metastatic (Mesentery)
	[ Hemangiosarcoma TGLS = 5-2 ]		
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 7-22, 9-24 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 129

**TRT#:** 5  
**DOSE:** 2500 PPM

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 564  
**HISTO:** 97-80481

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus  
[ Atrophy TGLS = 4-2 ]

Necrosis  
Atrophy

Focal, Mild  
Moderate

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**PRIMARY CAUSE OF DEATH** - Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 566

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 3-22 ]		Carcinoma	
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Syncytial Alteration	Focal, Mild
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
Skeletal Muscle [ Hemangiosarcoma TGLS = 2-21 ]		Hemangiosarcoma	

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 554

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 6-21 ]		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lymph Node, Mesenteric [ Carcinoma TGLS = 2-5 ]		Carcinoma	Metastatic (Intestine Large, Cecum)
* Spleen [ Depletion Cellular TGLS = 1-6 ]		Depletion Cellular	Moderate

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 523

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular

OBSERVATIONS

Blood Vessel			
Note: Aorta is on slide 5.			
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Necrosis	Moderate
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Mediastinal	Hemorrhage	Moderate
[ Hemorrhage TGLS = 5-22 ]			
Mesentery		Hemangiosarcoma	Multiple
		Inflammation	Chronic, Moderate
[ Hemangiosarcoma TGLS = 4-21, 6-23 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 569

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Prostate	* Thymus
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AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Bone Marrow		Hemorrhage	Focal, Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Moderate
	Hepatocyte	Necrosis	Moderate
[ Hepatocellular Carcinoma TGLS = 4-21 ]		Syncytial Alteration	Focal, Mild
Mesentery			
[ Hemangiosarcoma TGLS = 5-22, 6-23, 7-24 ]		Hemangiosarcoma	
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 133

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 569

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 97-80483

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 516

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Medulla	* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Liver	* Lymph Node, Mandibular	* Stomach, Glandular	

OBSERVATIONS

* Adren Cortex			
Note: Adrenal glands (cortex only) are on slide 5.			
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-22 ]			
* Skin	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Necrosis	Mild
[ Edema TGLS = 1-21 ]			
[ Necrosis TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH	- Mesentery	Hemangiosarcoma
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 557

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 496

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Large, Cecum

OBSERVATIONS

Coagulating Gland [ Hemangiosarcoma TGLS = 5-7 ]		Hemangiosarcoma	
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
		Syncytial Alteration	Focal, Mild
Mesentery [ Hemangiosarcoma TGLS = 4-21, 6-5 ]		Hemangiosarcoma	
* Pancreas	Acinus	Hemangiosarcoma	
* Skin [ Edema TGLS = 1-8 ]	Subcut Tiss	Edema	Mild
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Coagulating Gland Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 560

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Gallbladder

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Moderate
	Hepatocyte	Necrosis	Mild
* Lung		Syncytial Alteration	Focal, Minimal
Lymph Node	Mediastinal	Hemangiosarcoma	Metastatic (Mesentery)
Mesentery		Hemorrhage	Moderate
		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 137

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 560

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 97-80216

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 492

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Testes	* Thymus	* Thyroid Gland	* Trachea

MISSING

\* Mammary Gland

OBSERVATIONS

* Heart		Infiltration Cellular	Mixed Cell, Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Centrilobular, Hepatocyte	Fatty Change	Moderate
		Necrosis	Mild
Mesentery		Hemangiosarcoma	
		Inflammation	Chronic, Moderate
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Forestomach		Inflammation	Focal, Mild
* Urinary Bladder		Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 590

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Intestine Large, Colon	Muscularis, Serosa	Hemangiosarcoma	
* Kidney	Renal Tubule	Inflammation	Suppurative, Minimal
* Liver	Hepatocyte	Pigmentation	Moderate
Mesentery		Syncytial Alteration	Focal, Mild
		Hemangiosarcoma	Multiple
		Inflammation	Chronic, Focal, Moderate
[ Hemangiosarcoma TGLS = 3-22, 5-23 ]			
* Prostate		Inflammation	Chronic, Moderate
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6-2 ]			
* Stomach, Forestomach		Ulcer	Mild
[ Ulcer TGLS = 7-4 ]			
* Stomach, Glandular		Erosion	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma  
 CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 139

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 590

**DOSE:** 2500 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-80777

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 467

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* 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	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular

OBSERVATIONS

Mesentery [ Hemangiosarcoma TGLS = 4-22 ]	Hemangiosarcoma	
Skeletal Muscle [ Hemangiosarcoma TGLS = 1-21 ]	Hemangiosarcoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]	Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 466

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Necrosis	Minimal
* Prostate		Syncytial Alteration	Focal, Minimal
* Skin	Subcut Tiss	Inflammation	Chronic, Minimal
	[ Edema TGLS = 2-8 ]	Edema	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
Tissue NOS	Pelvic	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		

PRIMARY CAUSE OF DEATH - Tissue NOS Pelvic Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 706

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 98-82578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

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

* Gallbladder	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 7-24 ]		Carcinoma	
* Kidney [ Atrophy TGLS = 5-26 ] [ Inflammation TGLS = 5-26 ]		Atrophy Inflammation	Marked Chronic, Moderate
* Liver Hepatocyte [ Hepatocellular Carcinoma TGLS = 6-23 ]		Hepatocellular Carcinoma Necrosis Syncytial Alteration	Moderate Focal, Minimal
Mesentery [ Hemangiosarcoma TGLS = 3-22 ]		Hemangiosarcoma	
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Marked
Skeletal Muscle [ Hemangiosarcoma TGLS = 2-21, 8-25, 9-27 ]		Hemangiosarcoma	Multiple
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 706

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 98-82578

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 539

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Fatty Change	Moderate
		Necrosis	Mild
Lymph Node	Mediastinal	Hemorrhage	Moderate
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Stomach, Glandular		Erosion	Minimal
		Pigmentation	Focal, Minimal

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 470

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Eye		Inflammation	Chronic, Marked
	Cornea	Necrosis	Focal, Marked
[ Necrosis TGLS = 3-23 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-22 ]			
Skeletal Muscle		Hemangiosarcoma	
Note: Best sample of hemangiosarcoma (TGL 1) is on slide 9, included in 2 posterior sections of the nose and head.			
[ Hemangiosarcoma TGLS = 1-9, 1-21 ]			
* Stomach, Forestomach		Ulcer	Mild

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 534

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Mild
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 588

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Hemangiosarcoma	
		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Note: Hepatocellular carcinomas are early lesions.			
[ Hemangiosarcoma TGLS = 6-23 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 7-24 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-22 ]			
* Skin	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Hemangiosarcoma	
[ Edema TGLS = 1-8 ]			
[ Hemangiosarcoma TGLS = 2-21 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 146

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 588

**DOSE:** 2500 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-80515

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hematopoietic Cell Proliferation

Marked

[ Hematopoietic Cell Proliferation TGLS = 5-6 ]

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PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 566

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Thymus
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AUTO PRECLUDES DIAG.

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

* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
Mesentery		Hemangiosarcoma	
Note: Mesenteric lesion is on slide 7.			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-22, 4-23 ]			
* Skin	Subcut Tiss	Hemorrhage	Focal, Marked
[ Hemorrhage TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Focal, Minimal

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 485

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Islets, Pancreatic  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Thyroid Gland

\* Adrenal Medulla  
\* Epididymis  
\* Liver  
\* Pancreas  
\* Prostate  
\* Stomach, Forestomach  
\* Trachea

\* Bone  
\* Esophagus  
\* Lung  
\* Parathyroid Gland  
\* Salivary Glands  
\* Testes

\* Bone Marrow  
\* Heart  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Thymus

MISSING

\* Lymph Node, Mandibular

\* Mammary Gland

\* Urinary Bladder

AUTO PRECLUDES DIAG.

\* Gallbladder  
\* Intestine Small, Duodenum  
\* Spleen

\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Stomach, Glandular

\* Intestine Large, Colon  
\* Intestine Small, Jejunum

\* Intestine Large, Rectum  
\* Kidney

OBSERVATIONS

Mesentery

Hemangiosarcoma

[ Hemangiosarcoma TGLS = 2-7, 2-21 ]

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 423

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79032

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Epididymis  
\* Intestine Large, Colon  
\* Kidney  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Thymus

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Lung  
\* Pancreas  
\* Prostate  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone Marrow  
\* Gallbladder  
\* Intestine Small, Duodenum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Mammary Gland

**AUTO PRECLUDES DIAG.**

\* Intestine Large, Cecum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

**OBSERVATIONS**

\* Liver  
Mesentery  
[ Hemangiosarcoma TGLS = 2-21 ]  
\* Spleen

Hepatocyte

Syncytial Alteration  
Hemangiosarcoma

Focal, Minimal

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 560

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Thyroid Gland
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AUTO PRECLUDES DIAG.

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

Harderian Gland [ Carcinoma TGLS = 5-22 ]		Carcinoma	
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
[ Necrosis TGLS = 4-6 ]			
[ Vacuolization Cytoplasmic TGLS = 4-6 ]			
* Lung		Cyst	Mild
Note: Cyst is of the epidermal type; type of cyst not available in TDMS terminology for this study.			
* Parathyroid GI			
Note: Parathyroid gland is on slide 2, at surface of thymus.			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Seminal Vesicle		Congestion	Mild
[ Congestion TGLS = 7-24 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 150	<b>TRT#:</b> 5 <b>DOSE:</b> 2500 PPM	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 560 <b>HISTO:</b> 97-80217
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Skeletal Muscle [ Hemangiosarcoma TGLS = 3-21, 6-23, 8-25 ]	Hemangiosarcoma	Multiple
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]	Hematopoietic Cell Proliferation	Moderate

---

**PRIMARY CAUSE OF DEATH** - Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-21, 4-23 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 9-7 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-22 ]			
* Skin	Subcut Tiss	Inflammation	Chronic, Focal, Moderate
[ Inflammation TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
Urethra			

Note: Urethra is obstructed by semen coagulum, for which there is no applicable term in TDMS list of available terms.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 151

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 419

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 97-79033

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urin Bladder

Note: Thick bladder wall seen grossly apparently is artifact--due to intramural injection of fixative when inflating bladder.

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PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 588

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	Tissue NOS
* Trachea			

MISSING

* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Gallbladder
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-23, 4-8 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-22 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			
* Urinary Bladder		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-8 ]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 5

SEX: Male

DAY ON TEST: 520

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Stomach, Glandular		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Hemangiosarcoma	Metastatic (Uncertain Primary Site)
[ Hemangiosarcoma TGLS = 3-2 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-23 ]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21, 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 5

SEX: Male

DAY ON TEST: 476

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Brain                  |
| * Epididymis               | * Esophagus               | * Gallbladder               | * Heart                  |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular   | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| Peripheral Nerve           | * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | Spinal Cord               | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testes                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Pituitary Gland
- \* Thymus

OBSERVATIONS

- |  |                |                                   |   |
|--|----------------|-----------------------------------|---|
| * Bone Marrow  | Erythroid Cell | Depletion Cellular<br>Hyperplasia | Moderate<br>Mild                            |
| Note: Bone marrow hyperplasia is of the granulocytic type. |                |                                   |   |
| * Intestine Large, Cecum                                   |                | Carcinoma                         |   |
| [ Carcinoma TGLS = 5-22, 6-22 ]                            |                |                                   |   |
| * Liver  | Hepatocyte     | Necrosis<br>Syncytial Alteration  | Minimal<br>Focal, Minimal                   |
| * Lymph Node, Mesenteric                                   |                | Carcinoma<br>Hyperplasia          | Metastatic (Intestine Large, Cecum)<br>Mild |
| [ Carcinoma TGLS = 2-5 ]                                   |                |                                   |   |
| Mesentery  |                | Carcinoma                         | Metastatic (Intestine Large, Cecum)         |
| * Prostate   |                | Hemangiosarcoma                   |   |
| [ Hemangiosarcoma TGLS = 1-21 ]                            |                |                                   |   |

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 526

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Renal Tubule	Dilatation	Moderate
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver	Centrilobular, Hepatocyte	Fatty Change	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 1-21, 3-22, 4-23 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 5-6 ]		

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 5

SEX: Male

DAY ON TEST: 548

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder
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OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Mild
* Liver	Hepatocyte	Necrosis Syncytial Alteration	Mild Focal, Minimal
* Lung		Hemangiosarcoma	Metastatic (Skin)
* Parathyroid Gland		Cyst	Moderate
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 270

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 96-77640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Intestine Large, Rectum  
\* Lymph Node, Mesenteric  
\* Preputial Gland  
\* Skin  
\* Testes

\* Adrenal Medulla  
\* Epididymis  
\* Islets, Pancreatic  
\* Nose  
\* Prostate  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Kidney  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Trachea

\* Bone Marrow  
\* Heart  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Urinary Bladder

MISSING

\* Mammary Gland

\* Pituitary Gland

\* Thymus

AUTO PRECLUDES DIAG.

\* Gallbladder  
\* Intestine Small, Jejunum

\* Intestine Large, Colon  
\* Liver

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

OBSERVATIONS

\* Intestine Large, Cecum  
[ Carcinoma TGLS = 1-21 ]

Carcinoma

\* Lung

Infiltration Cellular

Polymorphnuclr, Mild

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 544

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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OBSERVATIONS

* Adren Medulla			
Note: One adrenal gland is missing.			
* Kidney	Renal Tubule	Metaplasia Pigmentation Necrosis	Osseous, Focal, Minimal Moderate Moderate
* Liver		Alveolar/Bronchiolar Carcinoma	
* Lung		Hemangiosarcoma Infiltration Cellular	Metastatic (Skin) Mixed Cell, Moderate
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]			
Lymph Node	Iliac Mediastinal	Hematopoietic Cell Proliferation Hyperplasia	Moderate Mild
[ Hematopoietic Cell Proliferation TGLS = 6-23 ]			
[ Hyperplasia TGLS = 5-22 ]			
Mesentery	Fat	Necrosis	Mild
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Testes			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 158

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 544

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 97-80136

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: One testis is missing.

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 5

SEX: Male

DAY ON TEST: 540

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Heart		Inflammation	Chronic, Focal, Mild
* Kidney	Pelvis	Dilatation	Mild
	Renal Tubule	Dilatation	Mild
		Nephropathy	Mild
* Liver		Fibrosis	Focal, Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
		Hemangiosarcoma	
Mesentery			
[ Hemangiosarcoma TGLS = 3-22 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Prostate		Inflammation	Chronic, Minimal
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 159

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 540

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 97-80079

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 451

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 5

SEX: Male

DAY ON TEST: 522

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Intestine Large, 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	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Heart		Infiltration Cellular	Mixed Cell, Mild
* Kidney	Renal Tubule	Dilatation	Mild
		Hemangiosarcoma	Metastatic (Mesentery)
	Renal Tubule	Infiltration Cellular	Mixed Cell, Mild
		Pigmentation	Mild
[ Dilatation TGLS = 6-5 ]			
* Liver	Hepatocyte	Infiltration Cellular	Mixed Cell, Minimal
		Syncytial Alteration	Focal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Mild
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-24 ]			
* Prostate		Inflammation	Chronic, Marked
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			
Urethra		Inflammation	Focal, Moderate

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma  
 CONTRIBUTORY CAUSE OF DEATH - Prostate Inflammation; Urethra Inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 161

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 522

**DOSE:** 2500 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-79993

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: Ductus deferens (not available in loaded tissue list): dilatation, moderate (TG L: 3-23), and inflammation, moderate

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 5

SEX: Male

DAY ON TEST: 569

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow			
Note: Bone marrow hyperplasia is of the granulocytic type.			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Angiectasis	Minimal
		Infiltration Cellular	Mixed Cell, Mild
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Skin	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Hemangiosarcoma	
[ Edema TGLS = 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 5

SEX: Male

DAY ON TEST: 492

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 7-22, 8-4 ]		Carcinoma	
* Liver		Infiltration Cellular Necrosis Syncytial Alteration Carcinoma	Mixed Cell, Mild Mild Focal, Minimal Metastatic (Intestine Large, Cecum)
* Lymph Node, Mesenteric [ Carcinoma TGLS = 6-5 ]	Hepatocyte		
Mesentery [ Hemangiosarcoma TGLS = 5-21 ]		Hemangiosarcoma	
* Spleen [ Depletion Cellular TGLS = 1-6 ]		Depletion Cellular	Marked

PRIMARY CAUSE OF DEATH - Intestine Large, Cecum Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 504

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	Pleura
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-22 ]			
* Preputial Gland		Degeneration	Cystic, Mild
[ Degeneration TGLS = 2-8 ]			
* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 563

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular

OBSERVATIONS

* Epididymis Note: One epididymis is missing.			
* Liver Note: Liver mottling seen at necropsy is due to autolysis; not due to a lesion.	Hepatocyte	Syncytial Alteration	Focal, Minimal
Skeletal Muscle [ Hemangiosarcoma TGLS = 2-21-1 ]		Hemangiosarcoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 1-6 ]		Hematopoietic Cell Proliferation	Moderate
* Testes Note: One testis is missing.			
* Thymus [ Atrophy TGLS = 3-2 ]		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 5

SEX: Male

DAY ON TEST: 645

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 1-21 ]		Adenoma	
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Nephropathy	Minimal
* Liver	Renal Tubule	Pigmentation	Moderate
		Angiectasis	Mild
		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
* Lung [ Hemangiosarcoma TGLS = 7-2 ]		Hemangiosarcoma	Metastatic (Mesentery)
* Lymph Node, Mandibular		Hemangioma	
Mesentery [ Hemangiosarcoma TGLS = 3-7, 4-22, 5-23 ]		Hemangiosarcoma	
* Preputial Gland [ Degeneration TGLS = 2-8 ]		Degeneration	Cystic, Moderate
Skeletal Muscle		Hemangiosarcoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 166	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 645
	<b>DOSE:</b> 2500 PPM	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 97-81775

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hemangiosarcoma TGLS = 8-24 ]			
* Skin	Subcut Tiss	Edema	Mild
	Subcut Tiss	Hemangiosarcoma	
[ Edema TGLS = 9-25 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 10-6 ]			

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PRIMARY CAUSE OF DEATH	- Mesentery Hemangiosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Lung Hemangiosarcoma Mesentery

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 5

SEX: Male

DAY ON TEST: 569

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

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

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
Note: One adrenal gland is missing.			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Mild
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-7, 4-21 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 5-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 167

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 569

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 97-80485

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 553

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Thymus

OBSERVATIONS

- |          |   |                                |                     |
|----------|---|--------------------------------|---------------------|
| * Kidney |   | Nephropathy                    | Minimal             |
| * Liver  |   | Basophilic Focus               |                     |
|          |   | Infiltration Cellular          | Mixed Cell, Minimal |
|          | Hepatocyte                                    | Syncytial Alteration           | Focal, Minimal      |
|          | [ Basophilic Focus TGLS = 1-6 ]               |                                |                     |
| * Lung   |   | Alveolar/Bronchiolar Carcinoma |                     |
|          | [ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ] |                                |                     |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 451

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Centrilobular, Hepatocyte	Fatty Change	Moderate
	Hepatocyte	Necrosis	Moderate
Skeletal Muscle		Syncytial Alteration	Focal, Minimal
[ Hemangiosarcoma TGLS = 1-21 ]		Hemangiosarcoma	
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 5

SEX: Male

DAY ON TEST: 548

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Intestine Large, Cecum	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-22 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 6-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 5

SEX: Male

DAY ON TEST: 410

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-78978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Bone Marrow Note: Bone marrow hyperplasia is granulocytic type.		Hyperplasia	Moderate
Coagulating Gland		Inflammation	Chronic, Marked
* Heart		Inflammation	Chronic, Focal, Mild
		Mineralization	Mild
* Kidney	Pelvis	Dilatation	Mild
		Inflammation	Suppurative, Moderate
	Renal Tubule	Pigmentation	Mild
[ Dilatation TGLS = 6-5 ]			
* Liver		Infiltration Cellular	Mixed Cell, Moderate
* Lung		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Iliac	Hyperplasia	Moderate
[ Hyperplasia TGLS = 5-22 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Prostate		Inflammation	Chronic, Marked
* Skin	Prepuce, Subcut Tiss	Inflammation	Suppurative, Marked
* Spleen		Hematopoietic Cell Proliferation	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 171	<b>TRT#:</b> 5 <b>DOSE:</b> 2500 PPM	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 410 <b>HISTO:</b> 97-78978
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 4-6 ]		
* Thymus	Atrophy	Moderate
[ Atrophy TGLS = 1-2 ]		

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PRIMARY CAUSE OF DEATH	- Mesentery Hemangiosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Coagulating Gland Inflammation;Kidney Inflammation;Prostate Inflammation;Skin Prepuce Subcut Tiss Inflammation

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 5

SEX: Male

DAY ON TEST: 592

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Prostate

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 5

SEX: Male

DAY ON TEST: 572

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-80486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 5-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 6-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Urinary Bladder		Calculus Micro Observation Only	Moderate

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 5

SEX: Male

DAY ON TEST: 624

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland	* Thymus
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OBSERVATIONS

* Intestine Large, Cecum		Carcinoma	
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Centrilobular, Hepatocyte	Fatty Change	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Fatty Change TGLS = 7-6 ]		
	[ Hepatocellular Carcinoma TGLS = 6-23 ]		
* Lung		Hemangiosarcoma	Metastatic (Skin)
		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hemangiosarcoma TGLS = 10-2 ]		
Mesentery		Hemangiosarcoma	Metastatic (Skeletal Muscle)
	[ Hemangiosarcoma TGLS = 5-25 ]		
Skeletal Muscle		Hemangiosarcoma	
		Hemorrhage	Focal, Moderate
	[ Hemangiosarcoma TGLS = 5-25 ]		
	[ Hemorrhage TGLS = 11-26 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 174

**TRT#:** 5  
**DOSE:** 2500 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 624  
**HISTO:** 97-81119

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**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Skin  
[ Hemangiosarcoma TGLS = 1-21 ]

Subcut Tiss

Hemangiosarcoma

\* Spleen

Hematopoietic Cell Proliferation

Moderate

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**PRIMARY CAUSE OF DEATH**

- Mesentery Hemangiosarcoma Skeletal Muscle

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 5

SEX: Male

DAY ON TEST: 434

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                          |                           |                            |
|--------------------------|--------------------------|---------------------------|----------------------------|
| * Bone                   | * Epididymis             | * Esophagus               | * Heart                    |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Lymph Node, Mandibular | * Parathyroid Gland       | * Preputial Gland          |
| * Seminal Vesicle        | * Testes                 | * Thyroid Gland           | * Trachea                  |

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Adrenal Medulla

OBSERVATIONS

- |                             |  |                              |
|-----------------------------|--|------------------------------|
| * Adrenal Cortex            |  | Lymphoma Malignant           |
| * Bone Marrow               |  | Lymphoma Malignant           |
| * Brain                     | Meninges                               | Lymphoma Malignant           |
| * Gallbladder               |  | Lymphoma Malignant           |
| * Intestine Small, Duodenum |  | Lymphoma Malignant           |
| * Intestine Small, Ileum    |  | Lymphoma Malignant           |
| * Kidney                    |  | Lymphoma Malignant           |
|                             | [ Lymphoma Malignant TGLS = 4-5 ]      |                              |
| * Liver                     |  | Lymphoma Malignant           |
|                             | [ Lymphoma Malignant TGLS = 5-6, 6-6 ] |                              |
| * Lung                      |  | Alveolar/Bronchiolar Adenoma |
|                             |  | Lymphoma Malignant           |
| Lymph Node                  | Bronchial                              | Lymphoma Malignant           |
|                             | Iliac                                  | Lymphoma Malignant           |
|                             | Mediastinal                            | Lymphoma Malignant           |
|                             | Renal                                  | Lymphoma Malignant           |
|                             | [ Lymphoma Malignant TGLS = 7-22 ]     |                              |
|                             | [ Lymphoma Malignant TGLS = 8-23 ]     |                              |
|                             | [ Lymphoma Malignant TGLS = 9-24 ]     |                              |
| * Lymph Node, Mesenteric    |  | Lymphoma Malignant           |
| Mesentery                   |  | Lymphoma Malignant           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 175

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 434

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 97-79046

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose		Lymphoma Malignant
* Pancreas		Lymphoma Malignant
* Pituitary Gland		Lymphoma Malignant
* Prostate		Lymphoma Malignant
* Salivary Glands		Lymphoma Malignant
Skeletal Muscle		Lymphoma Malignant
[ Lymphoma Malignant TGLS = 2-21 ]		
* Skin	Subcut Tiss	Lymphoma Malignant
* Spleen		Lymphoma Malignant
[ Lymphoma Malignant TGLS = 3-6 ]		
* Stomach, Forestomach		Lymphoma Malignant
* Stomach, Glandular		Lymphoma Malignant
* Thymus		Lymphoma Malignant
* Urinary Bladder		Lymphoma Malignant

**PRIMARY CAUSE OF DEATH**

- Liver Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 5

SEX: Male

DAY ON TEST: 497

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-79624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Int Lg Rectum			
Note: Rectum is on slide 21			
* Kidney	Renal Tubule	Dilatation	Moderate
		Inflammation	Suppurative, Moderate
	Papilla	Necrosis	Moderate
	Renal Tubule	Vacuolization Cytoplasmic	Moderate
Note: Focal aggregates of bacteria are plentiful in medulla of both kidneys, and section of urinary bladder on slide 21 shows abundant neutrophils in bladder lumen.			
* Liver	Hepatocyte	Syncytial Alteration	Focal, Mild
* Prostate		Inflammation	Chronic, Marked
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Mild
[ Hyperplasia TGLS = 3-4 ]			
[ Ulcer TGLS = 3-4 ]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 176

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 497

**DOSE:** 2500 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-79624

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 5

SEX: Male

DAY ON TEST: 365

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-78890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Jejunum
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Hemangiosarcoma	Metastatic (Skeletal Muscle)
	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
		Syncytial Alteration	Focal, Minimal
Note: Only one metastatic lesion of hemangiosarcoma, less than one mm. in diameter, is present in the liver.			
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
		Hemorrhage	Mild
	[ Hemangiosarcoma TGLS = 3-2 ]		
	[ Hemorrhage TGLS = 3-2 ]		
	Skeletal Muscle	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 5

SEX: Male

DAY ON TEST: 567

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Focal, Mild
		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Basophilic Focus TGLS = 4-22 ]		
	Mesentery		
	[ Hemangiosarcoma TGLS = 2-7 ]	Hemangiosarcoma	
* Prostate		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 2-7 ]		
Skeletal Muscle		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Mesentery Hemangiosarcoma;Prostate Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 178

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 567

**DOSE:** 2500 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-80252

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 5

SEX: Male

DAY ON TEST: 619

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Cyst	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-22 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-21, 5-23 ]			
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 179

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 619

**DOSE:** 2500 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-81132

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 5

SEX: Male

DAY ON TEST: 469

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-79264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
Tooth	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Pancreas
* Spleen	* Stomach, Forestomach		

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 6-23 ]		
	Mesentery	Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 2-21, 3-22 ]		

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 394

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Stomach, Glandular			

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-22 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-23 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 396

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
		Syncytial Alteration	Focal, Minimal
* Lung	Inguinal	Infiltration Cellular	Mixed Cell, Moderate
Lymph Node		Hemangiosarcoma	Metastatic (Skeletal Muscle)
[ Hemangiosarcoma TGLS = 2-21 ]			
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-22, 7-25 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 4-23, 5-24, 8-26 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 6-6 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 371

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Liver	Necrosis	Mild
* Lung	Hyperplasia	Histiocytic, Minimal
Skeletal Muscle	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-21, 3-22 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 403

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Moderate
* Liver		Infiltration Cellular	Mixed Cell, Mild
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-23 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 4-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 386

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

* Parathyroid Gland
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OBSERVATIONS

* Heart		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-5 ]			
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Angiectasis	Mild
	Hepatocyte	Infiltration Cellular	Mixed Cell, Minimal
[ Angiectasis TGLS = 6-24 ]		Syncytial Alteration	Focal, Mild
* Lung		Hemangiosarcoma	Metastatic (Skin)
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-23 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 185

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 386

**DOSE:** 5000 PPM

**DISP:** Natural Death

**HISTO:** 97-78892

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Heart Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 376

**DOSE:** 5000 PPM

**DISP:** Natural Death

**HISTO:** 97-78893

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
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**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Hemangiosarcoma	Metastatic (Mesentery)
Mesentery		Hemangiosarcoma	
Note: Small hemangiosarcoma is adjacent to adrenal gland, on slide #10.			
Skeletal Muscle		Hemorrhage	Focal, Mild
[ Hemorrhage TGLS = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

**PRIMARY CAUSE OF DEATH**

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 10-6 ]		
	Mesentery	Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 5-23, 6-24 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8 ]		
	Skeletal Muscle	Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 3-21, 4-22, 7-25, 12-26 ]		
* Skin	Subcut Tiss	Edema	Mild
	[ Edema TGLS = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 187

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 414

**DOSE:** 5000 PPM

**DISP:** Natural Death

**HISTO:** 97-78979

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hematopoietic Cell Proliferation

Moderate

[ Hematopoietic Cell Proliferation TGLS = 8-6 ]

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PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 375

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymsus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Mild
		Hemangiosarcoma	Multiple
Mesentery			
[ Hemangiosarcoma TGLS = 2-22 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 4-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 408

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Liver		Infiltration Cellular Necrosis	Mixed Cell, Mild Minimal
	Hepatocyte	Syncytial Alteration	Focal, Mild
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 5-22 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-21, 6-23 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 277

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 96-77641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Liver	Centrilobular, Hepatocyte Hepatocyte	Depletion Glycogen Syncytial Alteration Hemorrhage	Moderate Focal, Mild Minimal
* Lung			
[ Hemorrhage TGLS = 3-2 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-21 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 420

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Necrosis	Minimal
		Syncytial Alteration	Focal, Mild
[ Necrosis TGLS = 7-24 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Prostate		Inflammation	Chronic, Moderate
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-22, 4-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			
* Thymus		Atrophy	Moderate
[ Atrophy TGLS = 6-2 ]			
Urethra		Inflammation	Focal, Mild

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 449

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

* Intestine Small, Ileum
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OBSERVATIONS

Coagulating Gland		Inflammation	Chronic, Mild
* Lung	Mediastinum	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-2 ]			
* Prostate		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 4-7 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 6-21 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH

- Lung Mediastinum Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 365

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 375

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyms	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 4-7, 5-23 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-22, 4-7 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-21, 7-24, 8-25 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 6-6 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Lung		Hemorrhage	Mild
[ Hemorrhage TGLS = 8-28 ]			
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-22, 5-25 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 3-23, 4-24, 6-26, 9-27 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 7-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 392

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Cyst	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Mild
* Lung		Hemangiosarcoma	Metastatic (Uncertain Primary Site)
[ Hemangiosarcoma TGLS = 6-2 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-22 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 5-23 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hemangiosarcoma;Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 409

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Mild
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-25, 4-22 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-21, 6-23, 7-24 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 392

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
Note: Pigment in renal tubules is positive for ferric iron with Prussian Blue stain, indicating that the pigment is hemosiderin.			
* Liver		Infiltration Cellular Necrosis	Mixed Cell, Minimal Minimal
* Lung		Hemangiosarcoma Hemorrhage	Metastatic (Skeletal Muscle) Mild
Note: Probable primary site of hemangiosarcoma is TGL 1-21, skeletal muscle of hindlimb. [ Hemangiosarcoma TGLS = 6-2 ] [ Hemorrhage TGLS = 5-2 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
Note: PTAH stain was applied to tumor cells in skel muscle (TGL 1) and to metastatic cells in lung (TGL 6), for skel muscle cross-striations, with negative results. [ Hemangiosarcoma TGLS = 1-21, 7-24, 8-23 ]			
* Skin	Subcut Tiss Subcut Tiss	Edema Inflammation	Mild Chronic, Focal, Moderate
[ Edema TGLS = 2-8 ] [ Inflammation TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 198

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 392

**DOSE:** 5000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-78931

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tissue NOS

Pelvic

Hemangiosarcoma

[ Hemangiosarcoma TGLS = 3-7 ]

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PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 368

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
Skeletal Muscle		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 1-21, 3-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Thymus		Atrophy	Moderate
	[ Atrophy TGLS = 4-2 ]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 394

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

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

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Lung	Mediastinum	Hemangiosarcoma	
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 6-23 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 3-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Atrophy	Mild
[ Atrophy TGLS = 5-3 ]			

PRIMARY CAUSE OF DEATH - Lung Mediastinum Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 7

SEX: Male

DAY ON TEST: 295

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 96-77642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                   |                          |                           |                          |
|-------------------|--------------------------|---------------------------|--------------------------|
| * Adrenal Cortex  | * Adrenal Medulla        | * Bone                    | * Bone Marrow            |
| * Brain           | * Epididymis             | * Esophagus               | * Gallbladder            |
| * Heart           | * Intestine Large, Colon | * Intestine Large, Rectum | * Islets, Pancreatic     |
| * Kidney          | * Liver                  | * Lung                    | * Lymph Node, Mandibular |
| * Nose            | * Pancreas               | * Parathyroid Gland       | * Pituitary Gland        |
| * Preputial Gland | * Prostate               | * Salivary Glands         | * Seminal Vesicle        |
| * Skin            | * Stomach, Forestomach   | * Testes                  | * Thymus                 |
| * Thyroid Gland   | * Trachea                | * Urinary Bladder         |                          |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mesenteric | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Stomach, Glandular     |                             |                          |                            |

OBSERVATIONS

- |  |   |
|--|---|
| Skeletal Muscle<br>[ Hemangiosarcoma TGLS = 1-21 ] | Hemangiosarcoma                           |
| * Spleen   | Hematopoietic Cell Proliferation Moderate |

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 7

SEX: Male

DAY ON TEST: 391

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Intestine Large, 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	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Prostate
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OBSERVATIONS

* Heart		Infiltration Cellular	Mixed Cell, Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
* Liver	Artery	Angiectasis	Mild
	Artery	Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Moderate
	Hepatocyte	Necrosis	Minimal
		Syncytial Alteration	Focal, Minimal
[ Angiectasis TGLS = 7-23 ]			
[ Inflammation TGLS = 7-23 ]			
* Lung		Infiltration Cellular	Mixed Cell, Moderate
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-7,04-21, 6-7 ]			
Skeletal Muscle		Hemorrhage	Focal, Mild
[ Hemorrhage TGLS = 5-22 ]			
* Skin	Subcut Tiss	Hemorrhage	Focal, Mild
[ Hemorrhage TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:50  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 202

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 391

**DOSE:** 5000 PPM

**DISP:** Natural Death

**HISTO:** 97-78932

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 374

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	
Note: Mesenteric hemangiosarcoma is on slide #7.			
* Skin	Subcut Tiss	Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 3-21, 4-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 393

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Gallbladder

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Mild
* Liver	Centrilobular, Hepatocyte	Fatty Change	Mild
	Hepatocyte	Syncytial Alteration	Focal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
* Lung	Mediastinum	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-22 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Lung Mediastinum Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 7

SEX: Male

DAY ON TEST: 368

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Kidney	Capsule	Hemangiosarcoma	
	Renal Tubule	Pigmentation	Mild
* Liver	Oval Cell	Hyperplasia	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Mild
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 5-22, 6-23 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 8-24 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Thymus		Atrophy	Moderate
[ Atrophy TGLS = 7-2 ]			
Tissue NOS	Pelvic	Inflammation	Chronic, Focal, Mild
Note: Chronic focal inflammation of pelvic tissue nos specifically involves bulbocavernosus muscle; inflammatory process includes congestion.			
[ Inflammation TGLS = 9-25 ]			
Urethra		Inflammation	Focal, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:50

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 205

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 368

**DOSE:** 5000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-78887

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 7

SEX: Male

DAY ON TEST: 440

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
		Hemangiosarcoma	
Mesentery			
[ Hemangiosarcoma TGLS = 3-24 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-24, 5-22 ]			
* Skin	Subcut Tiss	Edema	Mild
	Subcut Tiss	Hemangiosarcoma	
[ Edema TGLS = 1-21 ]			
[ Hemangiosarcoma TGLS = 6-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH

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CONTRIBUTORY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 7

SEX: Male

DAY ON TEST: 297

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 96-77643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum
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OBSERVATIONS

* Kidney	Renal Tubule	Necrosis	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Necrosis	Mild
		Syncytial Alteration	Focal, Minimal
[ Necrosis TGLS = 4-6 ]			
Mesentery		Hemangiosarcoma	
* Pancreas		Hemangiosarcoma	
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 5-21 ]			
* Skin	Subcut Tiss	Edema	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Focal, Minimal

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 7

SEX: Male

DAY ON TEST: 406

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule Renal Tubule	Necrosis Pigmentation Infiltration Cellular Necrosis Syncytial Alteration	Moderate Moderate Mixed Cell, Moderate Mild Focal, Mild
* Liver	Hepatocyte	Hemangiosarcoma	
[ Infiltration Cellular TGLS = 5-6 ] [ Necrosis TGLS = 5-6 ]			
Skeletal Muscle [ Hemangiosarcoma TGLS = 2-22 ]			
* Skin	Subcut Tiss Subcut Tiss Subcut Tiss	Edema Hemangiosarcoma Hemorrhage	Mild Focal, Mild
[ Edema TGLS = 4-8 ] [ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 7

SEX: Male

DAY ON TEST: 422

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Moderate
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-22 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 4-23, 5-24 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Stomach, Glandular		Inflammation	Focal, Mild

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hemangiosarcoma

Animal Note: Subcut. tissue on slide #8 contains a portion of an hemangiosarcoma, probably part of one of the lesions diagnosed as hemangiosarcoma of skeletal muscle.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 7

SEX: Male

DAY ON TEST: 450

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Ileum
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OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Mild
* Lung		Hemangiosarcoma	Metastatic (Uncertain Primary Site)
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-23 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-21, 3-22, 6-24, 7-25 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 7

SEX: Male

DAY ON TEST: 372

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Mild
* Lung		Hemangiosarcoma	Metastatic (Skin)
	[ Hemangiosarcoma TGLS = 5-2 ]		
	Mesentery	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 4-22 ]		
* Skin	Subcut Tiss	Edema	Mild
	Subcut Tiss	Hemangiosarcoma	
	[ Edema TGLS = 2-8 ]		
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 403

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
Peripheral Nerve	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Mild
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
Note: Lung section contains multiple metastatic neoplasms; none more than one millimeter in diameter.			
[ Hemangiosarcoma TGLS = 4-2.1 ]			
* Prostate		Inflammation	Chronic, Moderate
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 3-23, 5-25 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 7

SEX: Male

DAY ON TEST: 302

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Liver	Necrosis	Minimal
Skeletal Muscle	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Stomach, Forestomach	Epithelium	Minimal
	Ulcer	Minimal

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 7

SEX: Male

DAY ON TEST: 392

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular
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INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Inflammation	Chronic, Focal, Mild
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Necrosis	Minimal
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-22 ]			
* Prostate		Hemangiosarcoma	Metastatic (Mesentery)
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 7

SEX: Male

DAY ON TEST: 401

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adren Cortex Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
Mesentery [ Hemangiosarcoma TGLS = 3-21 ]		Hemangiosarcoma	
Skeletal Muscle [ Hemangiosarcoma TGLS = 4-22, 5-23, 6-24, 7-25 ]		Hemangiosarcoma	Multiple
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Moderate
	Hepatocyte	Syncytial Alteration	Focal, Mild
	[ Infiltration Cellular TGLS = 6-6 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 1-21, 2-22, 4-7 ]		
Skeletal Muscle		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 5-25, 8-23, 9-24 ]		
* Skin	Subcut Tiss	Edema	Mild
	[ Edema TGLS = 3-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Atrophy	Moderate
	[ Atrophy TGLS = 10-2 ]		

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 326

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Liver		Infiltration Cellular Necrosis	Mixed Cell, Mild Minimal
* Lung		Hemangiosarcoma Hemorrhage	Metastatic (Skin) Moderate
Note: There are multiple lesions of metastatic hemangiosarcoma in lung tissue. [ Hemorrhage TGLS = 2-2 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Hemangiosarcoma	
Note: PTAH special stain was applied to subcut tumor cells (TGL 3) and to metastatic cells in lung (TGL 2) for skel muscle cross-striations, with negative results. [ Hemangiosarcoma TGLS = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 218

TRT#: 7

SEX: Male

DAY ON TEST: 368

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Liver	Centrilobular, Hepatocyte	Depletion Glycogen Necrosis	Moderate Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 4-22, 5-23 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 7

SEX: Male

DAY ON TEST: 409

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
Mesentery		Hemangiosarcoma	
Note: Hemangiosarcoma is present on Slide #7.			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-22 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 5-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 7

SEX: Male

DAY ON TEST: 380

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Liver	Hepatocyte	Syncytial Alteration	Focal, Mild
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 5-23 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-21, 4-22 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 6-6 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 7

SEX: Male

DAY ON TEST: 391

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Pancreas	* Stomach, Glandular		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Hemorrhage	Marked
[ Hemorrhage TGLS = 5-2 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-23 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 6-24 ]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Lung Hemorrhage;Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 7

SEX: Male

DAY ON TEST: 375

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymsus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver	Centrilobular, Hepatocyte	Depletion Glycogen	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-21, 3-22 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 5-23, 6-24 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 7

SEX: Male

DAY ON TEST: 350

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Mild
[ Hepatocellular Carcinoma TGLS = 4-22 ]			
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:50

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 7

SEX: Male

DAY ON TEST: 358

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
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INSUFFICIENT TISSUE

* Pituitary Gland	* Thymus
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OBSERVATIONS

* Heart		Inflammation	Chronic, Focal, Mild
		Mineralization	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte, Midzonal	Fatty Change	Mild
		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung	Mediastinum	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 13-30 ]		
	Mesentery	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 6-23 ]		
* Seminal Vesicle		Inflammation	Suppurative, Marked
Skeletal Muscle		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 3-22, 7-24, 8-25, 9-26, 10-27, 11-28, 14-31 ]		
* Skin	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Hemangiosarcoma	Multiple
	[ Edema TGLS = 1-8 ]		
	[ Hemangiosarcoma TGLS = 2-21, 12-29 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 224

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 358

**DOSE:** 5000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-78805

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Hematopoietic Cell Proliferation

Marked

[ Hematopoietic Cell Proliferation TGLS = 4-6 ]

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PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 408

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Moderate
* Liver	Necrosis	Minimal
Skeletal Muscle	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-22, 5-23 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 7

SEX: Male

DAY ON TEST: 406

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Necrosis	Minimal
* Lung		Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	Metastatic (Skin)
		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-23 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 7

SEX: Male

DAY ON TEST: 339

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Ileum	* Mammary Gland	* Prostate
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OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Necrosis	Mild
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
Tissue NOS		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			

PRIMARY CAUSE OF DEATH - Tissue NOS Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 7

SEX: Male

DAY ON TEST: 414

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyms	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Heart		Hemangiosarcoma	
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-22 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 5-23, 6-24, 7-25 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 408

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Mild
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
Note: Subcutaneous hemangiosarcoma is on slide 8.			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 230

TRT#: 7

SEX: Male

DAY ON TEST: 405

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Small, Duodenum	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Congestion	Moderate
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 231

TRT#: 7

SEX: Male

DAY ON TEST: 354

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte, Periportal Oval Cell	Atrophy Hyperplasia Infiltration Cellular Necrosis	Mild Mild Mixed Cell, Mild Minimal
* Lung	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Seminal Vesicle		Hemangiosarcoma Congestion	Metastatic (Skeletal Muscle) Moderate
Note: Lesion of seminal vesicle actually is closer to hemorrhage than congestion, but "hemorrhage" is not available morphology in TDMS menu.			
[ Congestion TGLS = 1-7 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Skin	Subcut Tiss	Edema	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 232

TRT#: 7

SEX: Male

DAY ON TEST: 368

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Islets, Pancreatic  
\* Pancreas  
\* Seminal Vesicle  
\* Trachea

\* Adrenal Medulla  
\* Epididymis  
\* Lung  
\* Preputial Gland  
\* Skin  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Lymph Node, Mesenteric  
\* Prostate  
\* Stomach, Forestomach

\* Bone Marrow  
\* Heart  
\* Nose  
\* Salivary Glands  
\* Testes

MISSING

\* Gallbladder  
\* Pituitary Gland

\* Lymph Node, Mandibular

\* Mammary Gland

\* Parathyroid Gland

AUTO PRECLUDES DIAG.

\* Intestine Large, Cecum  
\* Intestine Small, Ileum

\* Intestine Large, Colon  
\* Intestine Small, Jejunum

\* Intestine Large, Rectum  
\* Stomach, Glandular

\* Intestine Small, Duodenum

INSUFFICIENT TISSUE

\* Thyroid Gland

OBSERVATIONS

\* Kidney  
\* Liver  
  
Skeletal Muscle  
[ Hemangiosarcoma TGLS = 2-21 ]  
\* Spleen  
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]  
\* Thymus  
[ Atrophy TGLS = 4-2 ]

Renal Tubule  
  
Hepatocyte

Pigmentation  
Infiltration Cellular  
Syncytial Alteration  
Hemangiosarcoma

Minimal  
Mixed Cell, Minimal  
Focal, Minimal

Hematopoietic Cell Proliferation

Marked

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 7

SEX: Male

DAY ON TEST: 345

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Lung	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

* Pituitary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Syncytial Alteration	Focal, Minimal
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 7

SEX: Male

DAY ON TEST: 409

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
[ Hemangiosarcoma TGLS = 6-2-1 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-23 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-22, 7-24 ]			
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 3-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 7

SEX: Male

DAY ON TEST: 312

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Mild
	Hepatocyte	Syncytial Alteration	Focal, Minimal
	[ Infiltration Cellular TGLS = 3-6 ]		
	[ Necrosis TGLS = 3-6 ]		
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
Skeletal Muscle		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 7

SEX: Male

DAY ON TEST: 427

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Hemangiosarcoma	
Mesentery			
[ Hemangiosarcoma TGLS = 1-21 ]			
Skeletal Muscle		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 2-23, 3-24, 4-25, 6-26, 7-27 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 237

TRT#: 7

SEX: Male

DAY ON TEST: 391

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-78935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Liver		Necrosis	Minimal
	Hepatocyte	Syncytial Alteration	Focal, Mild
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-7, 5-24 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 238

TRT#: 7

SEX: Male

DAY ON TEST: 462

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Small, Duodenum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

\* Int Sm Duoden

Note: Duodenum is on slide 7.

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Moderate
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 7

SEX: Male

DAY ON TEST: 412

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Jejunum
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Infiltration Cellular	Mixed Cell, Moderate
	Hepatocyte	Necrosis	Moderate
Skeletal Muscle		Syncytial Alteration	Focal, Minimal
[ Hemangiosarcoma TGLS = 3-22, 5-23 ]		Hemangiosarcoma	Multiple
* Skin	Subcut Tiss	Inflammation	Chronic, Focal, Mild
[ Inflammation TGLS = 1-21, 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 7

SEX: Male

DAY ON TEST: 422

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
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OBSERVATIONS

* Liver	Hepatocyte	Syncytial Alteration	Focal, Minimal
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Skin	Subcut Tiss	Edema	Mild
	Subcut Tiss	Hemangiosarcoma	Multiple
[ Edema TGLS = 1-8 ]			
[ Hemangiosarcoma TGLS = 1-8, 3-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 5-4 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma  
 CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Clitoral Gland [ Degeneration TGLS = 2-8 ]	Degeneration	Cystic, Moderate
* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric	Hyperplasia	Mast Cell, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 3-24 ]		Adenoma	
* Liver [ Lymphoma Malignant TGLS = 2-6 ]		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 4-25 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-24 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mesenteric

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Clitoral Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8 ]			
Harderian Gland		Adenoma	
[ Adenoma TGLS = 6-24 ]			
* Kidney		Congestion	Mild
[ Congestion TGLS = 4-5 ]			
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary			
Note: One ovary is missing.			
* Thymus		Cyst	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 3-7 ]			
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 710

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82579

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Intestine Large, Colon	* Parathyroid Gland
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**OBSERVATIONS**

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Hyperplasia	Lymphoid, Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 98-82580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Moderate
* Liver		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-21 ]		
* Ovary		Luteoma	
	[ Luteoma TGLS = 3-7 ]		
* Spleen		Fibrosis	Mild
	[ Fibrosis TGLS = 1-6 ]	Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLS = 1-6 ]		
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 4-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 3-5 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Atrophy	Focal, Mild
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Mammary Gland		Ectasia	Mild
[ Ectasia TGLS = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82583

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus

**OBSERVATIONS**

\* Liver  
\* Uterus

Infiltration Cellular  
Hydrometra  
Hyperplasia

Endometrium

Mixed Cell, Minimal  
Moderate  
Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 250

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Liver		Infiltration Cellular	Mixed Cell, Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 710

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 98-82205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Cyst	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Uterus	Endometrium	Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 252

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Clitoral Gland		Degeneration	Cystic, Mild
[ Degeneration TGLS = 1-8 ]			
* Liver		Infiltration Cellular	Mixed Cell, Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 253

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82586

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

\* Lymph Node, Mandibular

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Angiectasis	Moderate
* Pancreas	Duct	Inflammation	Chronic, Focal, Mild
* Stomach, Forestomach		Hemangioma	
[ Hemangioma TGLS = 3-21 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 1-7 ]		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mesenteric

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 2-8 ]		Degeneration	Cystic, Mild
* Intestine Small, Jejunum [ Hyperplasia TGLS = 10-23 ]	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney [ Congestion TGLS = 6-5 ]		Congestion	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 5-22 ]		Hepatocellular Adenoma Infiltration Cellular	Mixed Cell, Minimal
Mesentery Note: Layer of fibrosis adjacent to necrotic fat is considered to be included in the term, "fat necrosis". [ Necrosis TGLS = 4-21 ]	Fat	Necrosis	Moderate
* Ovary [ Cyst TGLS = 9-7 ]		Cyst	
* Skin	Subcut Tiss	Inflammation	Chronic, Focal, Mild
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus [ Hydrometra TGLS = 8-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 255

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 98-82588

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 1-24 ]		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hydrometra	Mild
		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	Oral Mucosa	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

\* Ovary

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Inflammation	Suppurative, Moderate
[ Hyperplasia TGLS = 1-7 ]			
[ Inflammation TGLS = 1-7, 1-21 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hyperplasia	Histiocytic, Mild
	[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]		
Mesentery	Fat	Necrosis	Minimal
	[ Necrosis TGLS = 2-23 ]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Clitoral Gland

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Mild
		Cyst	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Mediastinal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-24 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-23 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Spleen		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 260

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Atrophy	Focal, Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Mild
* Ovary			
Note: One ovary is missing.			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Gallbladder

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Focal, Moderate
Note: Myelofibrosis was observed only in the skull, on one side only.			
* Liver		Hepatocellular Adenoma Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 1-21 ]			
* Ovary		Cystadenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 592

HISTO: 97-80779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Infiltration Cellular Necrosis Hyperplasia	Mixed Cell, Moderate Minimal Moderate
* Lymph Node, Mesenteric [ Hyperplasia TGLS = 2-5 ]			
* Ovary		Cyst	Moderate
* Stomach, Forestomach [ Squamous Cell Papilloma TGLS = 3-4 ]		Squamous Cell Papilloma	
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Stomach, Forestomach Squamous Cell Papilloma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skin
- \* Thymus

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

OBSERVATIONS

- \* Liver  
[ Eosinophilic Focus TGLS = 2-21 ]
- \* Ovary
- \* Uterus  
[ Hyperplasia TGLS = 1-7 ]

Endometrium

- Eosinophilic Focus
- Infiltration Cellular
- Hemorrhage
- Hydrometra
- Hyperplasia

- Mixed Cell, Minimal
- Mild
- Moderate
- Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

\* Clitoral Gland

OBSERVATIONS

\* Adren Cortex

Note: Both adrenal glands are deformed by tending to be locally diffuse, instead of composing a compact structure; otherwise are histologically normal.

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Pancreas	Duct	Cyst	Moderate
	Duct	Inflammation	Chronic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 266

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Salivary Glands
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

\* Pituitary Gland

INSUFFICIENT TISSUE

\* Gallbladder

OBSERVATIONS

\* Adren Cortex

Note: One adrenal gland is missing.

\* Kidney

Lymphoma Malignant  
Hepatocellular Adenoma  
Lymphoma Malignant

\* Liver

[ Hepatocellular Adenoma TGLS = 8-23 ]

\* Lung

Lymphoma Malignant

Lymph Node

Iliac	Lymphoma Malignant
Inguinal	Lymphoma Malignant
Mediastinal	Lymphoma Malignant
Pancreatic	Lymphoma Malignant
Renal	Lymphoma Malignant
	Lymphoma Malignant

Note: Axillary lymph node (TGL 3, slide 21) is affected by malignant lymphoma, but "axillary" is not an available TDMS site for lymph node.

[ Lymphoma Malignant TGLS = 9-24 ]

[ Lymphoma Malignant TGLS = 10-25 ]

[ Lymphoma Malignant TGLS = 1-26 ]

[ Lymphoma Malignant TGLS = 3-21 ]

[ Lymphoma Malignant TGLS = 6-7 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 267	<b>TRT#:</b> 2 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 733 <b>HISTO:</b> 98-82593
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mandibular [ Lymphoma Malignant TGLS = 2-8 ]	Lymphoma Malignant	
* Lymph Node, Mesenteric Mesentery [ Lymphoma Malignant TGLS = 4-22 ]	Lymphoma Malignant Lymphoma Malignant	
* Ovary Oviduct	Cyst Lymphoma Malignant	Moderate
* Pancreas	Lymphoma Malignant	
* Salivary Glands	Lymphoma Malignant	
* Spleen [ Lymphoma Malignant TGLS = 7-6 ]	Lymphoma Malignant	
* Thymus [ Lymphoma Malignant TGLS = 11-2 ]	Lymphoma Malignant	
* Urinary Bladder	Lymphoma Malignant	
* Uterus Endometrium [ Hyperplasia TGLS = 5-7 ]	Hydrometra Hyperplasia	Mild Cystic, Moderate

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Degeneration	Cystic, Moderate
		Pigmentation	Moderate
[ Pigmentation TGLS = 1-8 ]			
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Skeletal Muscle		Hemangioma	
[ Hemangioma TGLS = 2-21 ]			
* Thymus		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82595

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Pancreas [ Cyst TGLS = 3-7 ]	Duct	Cyst	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Multiple, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 1-21 ]		Adenoma	
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 272

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 98-82598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Lung
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland [ Inflammation TGLS = 1-8 ]		Inflammation	Chronic, Moderate
* Intestine Small, Jejunum		Lymphoma Malignant	
* Liver		Infiltration Cellular	Mixed Cell, Minimal
Lymph Node [ Lymphoma Malignant TGLS = 4-21 ]	Iliac	Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary [ Cyst TGLS = 3-7 ]		Cyst	Mild
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 273

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 98-82599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus Infiltration Cellular	Mixed Cell, Mild
[ Eosinophilic Focus TGLS = 3-6 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]			
* Ovary		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

OBSERVATIONS

- \* Liver
- \* Thyroid Gland
- \* Uterus

Infiltration Cellular  
 Degeneration  
 Hydrometra  
 Hyperplasia

Mixed Cell, Minimal  
 Cystic, Focal, Mild  
 Moderate  
 Cystic, Mild

[ Hydrometra TGLS = 1-7 ]

Endometrium

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Moderate
Note: Fluid of ovarian cyst apparently is predominantly blood. [ Cyst TGLS = 1-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

\* Lymph Node, Mesenteric

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Clitoral Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 2-8 ]			
* Liver		Clear Cell Focus	
		Congestion	Focal, Mild
		Infiltration Cellular	Mixed Cell, Minimal
[ Clear Cell Focus TGLS = 5-6 ]			
[ Congestion TGLS = 4-6 ]			
* Lung		Congestion	Moderate
* Ovary		Cyst	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Mild
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
Time Report Requested: 01:19:51  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 278

TRT#: 2  
DOSE: 0 PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 735  
HISTO: 98-82604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
Tooth	Peridont Tiss	Inflammation	Chronic, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Gallbladder		Lymphoma Malignant	
Harderian Gland		Adenoma	
[ Adenoma TGLS = 11-24 ]			
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-21 ]			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Lymphoma Malignant	
* Liver		Basophilic Focus	
		Lymphoma Malignant	
[ Basophilic Focus TGLS = 7-22 ]		Tension Lipidosis	
* Lung		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 9-2 ]			
Lymph Node	Mediastinal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 8-23 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 10-8 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-5 ]			
Mesentery		Lymphoma Malignant	
* Ovary		Angiectasis	Moderate
		Lymphoma Malignant	
[ Angiectasis TGLS = 4-7 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 279	<b>TRT#:</b> 2 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> 98-82605
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<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Degeneration	Cystic, Focal, Moderate
		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus		Angiectasis	Moderate
		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
		Lymphoma Malignant	
[ Hydrometra TGLS = 3-7 ]			
<b>PRIMARY CAUSE OF DEATH</b>	-		

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Liver		Hyperplasia Infiltration Cellular	Lymphoid, Focal, Mild Mixed Cell, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Spleen		Hyperplasia Lymphoma Malignant	Lymphoid, Moderate
[ Hyperplasia TGLS = 2-6 ]			
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 725

DOSE: 0 PPM

DISP: Natural Death

HISTO: 98-82607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                      |                   |                   |                  |
|----------------------|-------------------|-------------------|------------------|
| * Bone               | * Bone Marrow     | * Brain           | * Clitoral Gland |
| * Islets, Pancreatic | * Mammary Gland   | * Nose            | * Pancreas       |
| * Parathyroid Gland  | * Pituitary Gland | * Salivary Glands | * Trachea        |
| * Urinary Bladder    |                   |                   |                  |

MISSING

- \* Spleen

AUTO PRECLUDES DIAG.

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Gallbladder             | Harderian Gland             |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum |                           |                             |

OBSERVATIONS

- |  |             |                    |      |
|--|-------------|--------------------|------|
| * Esophagus                              |             | Lymphoma Malignant |      |
| * Heart                                  |             | Lymphoma Malignant |      |
| * Kidney                                 |             | Lymphoma Malignant |      |
| * Liver                                  |             | Lymphoma Malignant |      |
| [ Lymphoma Malignant TGLS = 9-6, 11-25 ] |             |                    |      |
| * Lung                                   |             | Hemorrhage         | Mild |
|  | Mediastinum | Lymphoma Malignant |      |
|  |             | Lymphoma Malignant |      |
| Lymph Node                               | Iliac       | Lymphoma Malignant |      |
|  | Inguinal    | Lymphoma Malignant |      |
|  | Mediastinal | Lymphoma Malignant |      |
|  | Renal       | Lymphoma Malignant |      |
| [ Lymphoma Malignant TGLS = 4-21 ]       |             |                    |      |
| [ Lymphoma Malignant TGLS = 1-8 ]        |             |                    |      |
| [ Lymphoma Malignant TGLS = 5-22 ]       |             |                    |      |
| [ Lymphoma Malignant TGLS = 7-23 ]       |             |                    |      |
| * Lymph Node, Mandibular                 |             | Lymphoma Malignant |      |
| [ Lymphoma Malignant TGLS = 2-8 ]        |             |                    |      |
| * Lymph Node, Mesenteric                 |             | Lymphoma Malignant |      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 281	<b>TRT#:</b> 2 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 725 <b>HISTO:</b> 98-82607
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesentery		Lymphoma Malignant	
* Ovary		Lymphoma Malignant	
Skeletal Muscle		Lymphoma Malignant	
* Skin	Subcut Tiss	Lymphoma Malignant	
* Stomach, Forestomach		Diverticulum	Mild
		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 6-8 ]			

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**PRIMARY CAUSE OF DEATH** - Liver Lymphoma Malignant

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Salivary Glands
- \* Thymus

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skin
- \* Thyroid Gland

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Stomach, Forestomach
- \* Trachea

OBSERVATIONS

- \* Kidney
- \* Parathyroid Gland
- \* Spleen
- Tooth
- \* Uterus

- Peridont Tiss
- Endometrium

- Nephropathy
- Cyst
- Hyperplasia
- Inflammation
- Hyperplasia

- Minimal
- Moderate
- Lymphoid, Mild
- Chronic, Minimal
- Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 283

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone	Maxilla	Hyperostosis	Focal, Moderate
* Bone Marrow		Inflammation	Chronic, Focal, Moderate
Note: Maxilla is site of bone marrow inflammation.			
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
	[ Hepatocellular Adenoma TGLS = 1-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Gallbladder		Cyst	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
Mesentery	Fat	Necrosis	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
	[ Hepatocellular Adenoma TGLS = 5-21 ]		
* Lymph Node, Mesenteric		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 6-5 ]		
Mesentery		Inflammation	Chronic, Moderate
	[ Inflammation TGLS = 6-5 ]		
* Ovary		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
	[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		
	[ Hyperplasia TGLS = 1-6 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 2-6 ]		
	[ Hyperplasia TGLS = 2-6, 4-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 299

DOSE: 0 PPM

DISP: Natural Death

HISTO: 96-77639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                          |                          |                           |
|--------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Medulla        | * Bone                   | * Bone Marrow            | * Clitoral Gland          |
| * Esophagus              | * Heart                  | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Kidney                 | * Liver                   |
| * Lung                   | * Lymph Node, Mandibular | * Mammary Gland          | * Nose                    |
| * Ovary                  | * Pancreas               | * Parathyroid Gland      | * Salivary Glands         |
| * Skin                   | * Spleen                 | * Stomach, Forestomach   | * Stomach, Glandular      |
| * Thymus                 | * Thyroid Gland          | * Trachea                | * Urinary Bladder         |
| * Uterus                 |                          |                          |                           |

MISSING

- \* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

- |               |                          |                             |                            |
|---------------|--------------------------|-----------------------------|----------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
|---------------|--------------------------|-----------------------------|----------------------------|

OBSERVATIONS

- |                         |  |                                   |                 |
|-------------------------|--|-----------------------------------|-----------------|
| * Adrenal Cortex        |  | Accessory Adrenal Cortical Nodule | Mild            |
| * Brain                 |  | Atrophy                           | Focal, Moderate |
| [ Atrophy TGLS = 1-1 ]  |  |                                   |                 |
| * Pituitary Gland       |  | Adenoma                           |                 |
| [ Adenoma TGLS = 2-21 ] |  |                                   |                 |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Esophagus                | * Gallbladder             | * 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   | * Mammary Gland           | * Nose                      |
| * Ovary                  | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- \* Lymph Node, Mesenteric

OBSERVATIONS

- |   |             |                       |                     |
|---|-------------|-----------------------|---------------------|
| * Clitoral Gland<br>[ Degeneration TGLS = 1-8 ] |             | Degeneration          | Cystic, Mild        |
| * Liver   |             | Infiltration Cellular | Mixed Cell, Minimal |
| * Uterus<br>[ Hyperplasia TGLS = 3-7 ]          | Endometrium | Hyperplasia           | Cystic, Moderate    |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 288

TRT#: 2

SEX: Female

DAY ON TEST: 562

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-80487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Stomach, Glandular			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
Note: Bone marrow hyperplasia is of granulocytic type.			
* Liver	Centrilobular, Hepatocyte	Fatty Change	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Focal, Moderate
		Ulcer	Mild
	[ Hyperplasia TGLS = 5-4, 5-21 ]		
	[ Ulcer TGLS = 5-4, 5-21 ]		
* Thymus		Atrophy	Marked
	[ Atrophy TGLS = 2-2 ]		
* Uterus		Inflammation	Suppurative, Moderate
	[ Inflammation TGLS = 1-7, 3-7 ]		

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

CONTRIBUTORY CAUSE OF DEATH

- Stomach;Forestomach Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

OBSERVATIONS

- \* Kidney
- \* Uterus

- Nephropathy
- Cyst
- Hydrometra
- Hyperplasia

- Minimal
- Mild
- Moderate
- Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]

Endometrium

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

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: 98-82614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

\* Trachea

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

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: 98-82615

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Hyperplasia Infiltration Cellular Necrosis	Lymphoid, Focal, Mild Mixed Cell, Minimal Moderate
Mesentery [ Necrosis TGLS = 1-21 ]	Fat		
* Ovary		Luteoma	
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

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: 98-82713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- \* Lymph Node, Mesenteric

INSUFFICIENT TISSUE

- \* Thymus

OBSERVATIONS

- |                  |             |                                  |                     |
|------------------|-------------|----------------------------------|---------------------|
| * Adrenal Cortex | Capsule     | Adenoma                          |                     |
| * Kidney         |             | Nephropathy                      | Minimal             |
| * Liver          |             | Infiltration Cellular            | Mixed Cell, Minimal |
| * Ovary          |             | Cyst                             | Moderate            |
| * Spleen         |             | Hematopoietic Cell Proliferation | Mild                |
| * Uterus         | Endometrium | Hyperplasia                      | Cystic, Moderate    |

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

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: 98-82616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
* Uterus		Hemangioma	
	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
[ Hemangioma TGLS = 1-7 ]			
[ Polyp Stromal TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

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: 98-82617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Degeneration Pigmentation	Cystic, Moderate Mild
[ Degeneration TGLS = 1-8 ] [ Pigmentation TGLS = 1-8 ]			
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Thyroid Gland		Inflammation	Chronic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 483

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 97-79446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	Pleura	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Thymus

OBSERVATIONS

* Liver	Centrilobular, Hepatocyte	Fatty Change	Moderate
* Skin	Subcut Tiss	Cyst	Marked
	Subcut Tiss	Hemorrhage	Focal, Marked
	Subcut Tiss	Inflammation	Chronic, Focal, Moderate
	[ Cyst TGLS = 1-21 ]		
	[ Hemorrhage TGLS = 1-21 ]		
	[ Inflammation TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Thyroid Gland		Inflammation	Chronic, Focal, Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Cyst

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Hemorrhage;Skin Subcut Tiss Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8, 2-8 ]		Degeneration	Cystic, Moderate
* Uterus [ Hyperplasia TGLS = 3-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 297

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

- \* Bone Marrow
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

OBSERVATIONS

- \* Adrenal Medulla
- \* Clitoral Gland

Hyperplasia  
 Degeneration  
 Inflammation  
 Pigmentation

Moderate  
 Cystic, Moderate  
 Chronic, Moderate  
 Mild

- [ Degeneration TGLS = 1-8 ]
- [ Inflammation TGLS = 1-8 ]
- [ Pigmentation TGLS = 3-8 ]

- \* Liver
- Tooth
- \* Uterus

Peridont Tiss  
 Endometrium

Infiltration Cellular  
 Inflammation  
 Hyperplasia

Mixed Cell, Minimal  
 Chronic, Moderate  
 Cystic, Moderate

- [ Hyperplasia TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 298

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82620

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Lymph Node, Mesenteric [ Sarcoma TGLS = 2-21 ]		Sarcoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Moderate
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 2

SEX: Female

DAY ON TEST: 362

DOSE: 0 PPM

DISP: Natural Death

HISTO: 97-78901

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
Tissue NOS	* Trachea	* Uterus	

**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Pituitary Gland
* Stomach, Glandular	* Urinary Bladder		

**OBSERVATIONS**

\* Liver Hepatocellular Carcinoma

[ Hepatocellular Carcinoma TGLS = 1-21 ]

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 98-82621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Trachea	

MISSING

\* Thymus

INSUFFICIENT TISSUE

\* Lymph Node, Mesenteric

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Heart	Epicardium	Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung		Hemorrhage	Mild
		Lymphoma Malignant	
[ Hemorrhage TGLS = 6-2 ]			
Lymph Node	Inguinal	Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Nose		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
[ Lymphoma Malignant TGLS = 2-6 ]			
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Erosion	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
Tooth	Peridont Tiss	Inflammation	Chronic, Mild
* Urinary Bladder		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 300

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 98-82621

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia  
Lymphoma Malignant

Cystic, Moderate

---

[ Hyperplasia TGLS = 3-7 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 301

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 658

**DOSE:** 1250 PPM

**DISP:** Natural Death

**HISTO:** 98-81882

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Rectum	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea			

**MISSING**

* Pituitary Gland	* Spleen	* Thymus	* Urinary Bladder
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**AUTO PRECLUDES DIAG.**

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Stomach, Forestomach
* Stomach, Glandular			

**OBSERVATIONS**

* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-6, 3-21 ]			
* Lung		Histiocytic Sarcoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hyperplasia Infiltration Cellular	Lymphoid, Focal, Mild Mixed Cell, Minimal
* Lung	[ Alveolar/Bronchiolar Adenoma TGLS = 2-2-1 ]	Alveolar/Bronchiolar Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Uterus		Cyst	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Cyst TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			
[ Polyp Stromal TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 304

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 1250 PPM

**DISP:** Natural Death

**HISTO:** 98-82792

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Trachea

**MISSING**

* Parathyroid Gland	* Urinary Bladder
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**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Ovary		

**OBSERVATIONS**

* Kidney [ Pigmentation TGLS = 2-5 ]	Renal Tubule	Pigmentation	Mild
* Liver [ Congestion TGLS = 3-6 ]		Congestion	Focal, Mild
* Stomach, Glandular [ Ulcer TGLS = 5-4-1 ]		Ulcer	Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Moderate
* Uterus		Congestion	Moderate
		Hemorrhage	Moderate
		Inflammation	Suppurative, Moderate
[ Inflammation TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

- Uterus Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82793

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Inflammation	Chronic, Focal, Mild
Note: Focal inflammation of thyroid gland affects mainly the periphery of an artery within the gland.			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Kidney [ Lymphoma Malignant TGLS = 4-5 ]		Lymphoma Malignant	
* Liver [ Lymphoma Malignant TGLS = 5-6 ]		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
* Ovary		Cyst	Mild
* Pancreas		Lymphoma Malignant	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ] [ Lymphoma Malignant TGLS = 2-6 ]		Hematopoietic Cell Proliferation Lymphoma Malignant	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus [ Hyperplasia TGLS = 3-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 712

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Islets, Pancreatic		Atrophy	Diffuse, Moderate
* Liver	Hepatocyte	Fatty Change	Marked
		Infiltration Cellular	Mixed Cell, Minimal
[ Fatty Change TGLS = 4-6 ]			
* Pancreas	Acinus	Atrophy	Diffuse, Marked
	Duct	Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Uterus	Endometrium	Hydrometra	Marked
		Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 7-7 ]			
[ Hyperplasia TGLS = 6-7 ]			

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Atrophy  
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocyte Fatty Change

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 644

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Salivary Glands	
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Pancreas	* Urinary Bladder	

OBSERVATIONS

Harderian Gland		Carcinoma	
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	Mediastinum	Carcinoma	Metastatic (Harderian Gland)
		Carcinoma	Metastatic (Harderian Gland)
		[ Alveolar/Bronchiolar Carcinoma TGLS = 2-21, 4-2 ]	
		[ Carcinoma TGLS = 2-21, 4-2 ]	
		[ Carcinoma TGLS = 1-2 ]	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Lung Carcinoma Harderian Gland

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [ Pigmentation TGLS = 1-8 ]		Pigmentation	Mild
* Liver [ Congestion TGLS = 8-23 ] [ Cyst TGLS = 6-6 ]		Basophilic Focus Congestion Cyst Eosinophilic Focus Hepatocellular Adenoma Hyperplasia Infiltration Cellular	Focal, Mild Moderate
Mesentery [ Necrosis TGLS = 2-21 ]	Fat	Necrosis	Mild
* Ovary [ Cyst TGLS = 3-7 ]		Cyst	Marked
* Pituitary Gland * Spleen [ Lymphoma Malignant TGLS = 5-6 ]	Pars Distalis	Cytoplasmic Alteration Lymphoma Malignant	Focal, Minimal
* Uterus [ Hydrometra TGLS = 4-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82796

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-2 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			
* Ovary		Cyst	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Pigmentation	Mild
[ Pigmentation TGLS = 1-8 ]			
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
		Tension Lipidosis	
[ Basophilic Focus TGLS = 2-21 ]			
[ Hepatocellular Adenoma TGLS = 3-22 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 612

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
* Lung	Mediastinum	Lymphoma Malignant	
		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-22 ]			
Lymph Node	Inguinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-21 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-5 ]			
Mesentery		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-6 ]			

PRIMARY CAUSE OF DEATH

- Lung Mediastinum Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
 Time Report Requested: 01:19:51  
 First Dose M/F: NA / NA  
 Lab: SRI

**ANIMAL ID:** 313

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82799

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

Blood Vessel	Aorta	Mineralization	Moderate
* Kidney		Nephropathy	Moderate
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Focal, Mild
		Ulcer	Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 1-8 ]  
 [ Hyperplasia TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
Note: Liver cystic lesion, discovered at trimming, probably was blood vessel or lymphatic showing depletion of fluid content (TGL 4-6). [ Angiectasis TGLS = 4-6 ] [ Vacuolization Cytoplasmic TGLS = 3-6 ]			
* Ovary		Cyst	Moderate
Note: Ovarian cyst is an hematocyst.			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
		Leiomyoma	
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

Animal Note: Bone marrow myelofibrosis localized in the skull.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung			
Note: Extravasated blood in lung is judged to be artifact.			
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst	Moderate
Note: Ovarian cyst is an hematocyst.			
* Spleen		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 3-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Hyperplasia TGLS = 1-7 ]			
[ Polyp Stromal TGLS = 2-21 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 317

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82803

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Multiple, Moderate
Note: Smaller of ovarian cysts is an hematocyst. [ Cyst TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ] [ Hyperplasia TGLS = 3-6 ]			
* Thyroid Gland	Follicle	Cyst	Moderate
* Uterus		Hydrometra	Marked
[ Hydrometra TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Mild
		Hyperplasia	Lymphoid, Mild
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
	[ Hepatocellular Adenoma TGLS = 3-21 ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 2-7 ]		
Tooth	Peridont Tiss	Inflammation	Chronic, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Ovary

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 3-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
Time Report Requested: 01:19:51  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 321	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 735
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 98-82807

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82808

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Infiltration Cellular	Mixed Cell, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Minimal
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Ovary		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hemangiosarcoma	
	Endometrium	Hyperplasia	Cystic, Moderate

Note: Portions of the hemangiosarcoma in uterus show mineral deposition. (See slide 7.1)

[ Hemangiosarcoma TGLS = 3-7 ]

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Thymus	* Urinary Bladder
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OBSERVATIONS

* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-21 ]			
* Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-7 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82812

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**INSUFFICIENT TISSUE**

\* Clitoral Gland

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Minimal
* Ovary		Cyst	
[ Cyst TGLS = 1-7 ]			
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 2-7 ]		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82814

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Ovary		Cyst	Multiple, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 679

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-81883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Clitoral Gland

OBSERVATIONS

* Lymph Node, Mesenteric [ Hyperplasia TGLS = 5-22 ]		Hyperplasia	Lymphoid, Mild
* Parathyroid Gland Note: Parathyroid gland is on slide 2, embedded naturally in tissue of thymus.			
* Skin [ Basosquamous Tumor Malignant TGLS = 1-21 ]		Basosquamous Tumor Malignant	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Mild
* Uterus [ Hyperplasia TGLS = 3-7, 4-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney [ Congestion TGLS = 3-5 ]		Congestion	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen [ Hyperplasia TGLS = 2-6 ]		Hyperplasia	Lymphoid, Mild
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

OBSERVATIONS

- \* Kidney
  - \* Uterus
- [ Hyperplasia TGLS = 1-7 ]

Renal Tubule  
Endometrium

Casts Protein  
Hydrometra  
Hyperplasia

Mild  
Moderate  
Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 660

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 98-81884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

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

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Urinary Bladder
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INSUFFICIENT TISSUE

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Marked
	[ Accumulation, Hyaline Droplet TGLS = 8-5 ]	Histiocytic Sarcoma	
* Liver		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 9-6, 10-21, 11-22 ]		
* Lung		Congestion	Mild
	[ Congestion TGLS = 12-2 ]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
Mesentery		Histiocytic Sarcoma	
* Ovary		Cyst	Mild
		Hemorrhage	Moderate
		Histiocytic Sarcoma	
	[ Cyst TGLS = 5-7 ]		
	[ Hemorrhage TGLS = 4-7 ]		
	[ Histiocytic Sarcoma TGLS = 4-7 ]		
* Pancreas	Acinus	Atrophy	Diffuse, Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 332	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 660
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 98-81884

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Skin [ Edema TGLS = 1-8 ]	Subcut Tiss	Edema	Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Edema	Moderate
* Uterus [ Histiocytic Sarcoma TGLS = 6-7, 7-7 ]		Histiocytic Sarcoma	

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PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82817

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Hyperplasia	Lymphoid, Mild
		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 334

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82818

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Trachea

\* Adrenal Medulla  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus

**OBSERVATIONS**

\* Liver  
\* Thyroid Gland  
\* Uterus  
[ Hyperplasia TGLS = 1-7 ]

Endometrium

Infiltration Cellular  
Degeneration  
Hyperplasia

Mixed Cell, Minimal  
Cystic, Focal, Mild  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Clitoral Gland		Degeneration	Cystic, Mild
[ Degeneration TGLS = 1-8 ]			
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-5 ]			
* Ovary	Periovarn Tiss	Cyst	Mild
[ Cyst TGLS = 6-7 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 4-7 ]		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 608

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-81028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Intestine Large, Rectum
- \* Liver
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus

- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Jejunum

- \* Intestine Large, Cecum

- \* Intestine Large, Colon

- \* Intestine Small, Ileum

OBSERVATIONS

- \* Lung Congestion Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Moderate
Note: Bone marrow lesion is in nasal region of the head.			
* Kidney		Hyperplasia	Lymphoid, Mild
* Liver		Hyperplasia	Lymphoid, Focal, Marked
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]			
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Islets, Pancreatic [ Carcinoma TGLS = 2-21 ]		Carcinoma	
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 339

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 266

**DOSE:** 1250 PPM

**DISP:** Natural Death

**HISTO:** 97-78209

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
 \* Clitoral Gland  
 \* Parathyroid Gland  
 \* Thyroid Gland

\* Adrenal Medulla  
 \* Esophagus  
 \* Pituitary Gland  
 \* Trachea

\* Bone  
 \* Mammary Gland  
 \* Salivary Glands  
 \* Urinary Bladder

\* Brain  
 \* Nose  
 \* Skin

**AUTO PRECLUDES DIAG.**

\* Bone Marrow  
 \* Intestine Large, Rectum  
 \* Islets, Pancreatic  
 \* Ovary  
 \* Stomach, Glandular

\* Gallbladder  
 \* Intestine Small, Duodenum  
 \* Kidney  
 \* Pancreas  
 \* Uterus

\* Intestine Large, Cecum  
 \* Intestine Small, Ileum  
 \* Lymph Node, Mandibular  
 \* Spleen

\* Intestine Large, Colon  
 \* Intestine Small, Jejunum  
 \* Lymph Node, Mesenteric  
 \* Stomach, Forestomach

**OBSERVATIONS**

\* Heart  
 \* Liver

Epicardium  
 Hepatocyte

Lymphoma Malignant  
 Fatty Change  
 Lymphoma Malignant  
 Lymphoma Malignant  
 Lymphoma Malignant

Diffuse, Moderate

\* Lung  
 \* Thymus

[ Lymphoma Malignant TGLS = 2-2 ]

**PRIMARY CAUSE OF DEATH**

- Thymus Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 721

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 98-82822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum	Peyers Patch	Inflammation	Suppurative, Chronic, Focal, Moderate
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Angiectasis	Moderate
Note: Angiectasis mainly involves the lymph vessels of the interstitium.			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

CONTRIBUTORY CAUSE OF DEATH

- Intestine Small;Jejunum Peyers Patch Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatocellular Adenoma Hyperplasia Infiltration Cellular	Lymphoid, Focal, Mild Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney [ Congestion TGLS = 5-5 ]		Congestion	Mild
* Liver		Eosinophilic Focus Infiltration Cellular	Mixed Cell, Minimal
* Ovary Note: One ovary is missing.			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration Hematopoietic Cell Proliferation	Focal, Mild Mild
* Spleen [ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus [ Hydrometra TGLS = 3-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

\* Adrenal Medulla

OBSERVATIONS

* Heart		Infiltration Cellular	Mixed Cell, Mild
* Lung		Hyperplasia	Histiocytic, Focal, Marked
[ Hyperplasia TGLS = 3-21 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus		Hemangioma	
		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hemangioma TGLS = 1-7 ]			
[ Hydrometra TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Cyst	Moderate
[ Cyst TGLS = 3-21 ]			
Skeletal Muscle		Sarcoma	
[ Sarcoma TGLS = 4-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 5-23 ]			
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 1-7 ]		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Thyroid Gland	* Trachea
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OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Kidney		Nephropathy	Mild
* Lung [ Hemorrhage TGLS = 7-2 ]		Hemorrhage	Mild
Mesentery [ Necrosis TGLS = 4-21 ]	Fat	Necrosis	Mild
* Uterus [ Hydrometra TGLS = 2-7 ] [ Hyperplasia TGLS = 3-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Gallbladder		Cyst	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus	Endometrium	Hemangioma	
		Hyperplasia	Cystic, Moderate
[ Hemangioma TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney	Bilateral	Atrophy	Focal, Moderate
	Bilateral	Fibrosis	Focal, Moderate
	Bilateral	Inflammation	Chronic, Focal, Moderate
Note: Kidney lesions are on slides 5 and 21.			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[ Basophilic Focus TGLS = 5-22, 6-23 ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 2-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 553

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-80222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Intestine Large, 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	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Carcinoma	Metastatic (Uncertain Primary Site)
Note: Site of bone marrow metastatic lesion is vertebral bone marrow.			
[ Carcinoma TGLS = 18-32 ]			
* Heart		Carcinoma	Metastatic (Uncertain Primary Site)
[ Carcinoma TGLS = 16-5 ]			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Pelvis	Carcinoma	Moderate
		Dilatation	Moderate
		Nephropathy	
[ Carcinoma TGLS = 9-5 ]			
[ Dilatation TGLS = 10-5 ]			
* Liver		Infiltration Cellular	Mixed Cell, Moderate
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	Mediastinum	Carcinoma	Metastatic (Uncertain Primary Site)
		Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 14-2 ]			
[ Carcinoma TGLS = 14-2, 15-29 ]			
Mesentery		Carcinoma	Metastatic (Uncertain Primary Site)
[ Carcinoma TGLS = 8-25 ]			
* Ovary		Carcinoma	
[ Carcinoma TGLS = 6-7 ]			
Skeletal Muscle		Carcinoma	Metastatic (Uncertain Primary Site)

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 348	<b>TRT#:</b> 4 <b>DOSE:</b> 1250 PPM	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 553 <b>HISTO:</b> 97-80222
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLS = 11-26, 12-27, 18-32 ]			
* Skin	Subcut Tiss	Carcinoma	Multiple
[ Carcinoma TGLS = 1-21, 2-22, 3-23, 4-24, 13-28, 17-31 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 5-7 ]			
Vagina		Carcinoma	Metastatic (Uncertain Primary Site)
[ Carcinoma TGLS = 7-30 ]			

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**PRIMARY CAUSE OF DEATH** - Lung Alveolar/Bronchiolar Carcinoma

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Animal Note: Mouse #348 has widespread carcinoma(NOS) lesions of uncertain origin. Likely origin is lung (in which case carcinoma type would be alveolar/bronchiolar).

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 497

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-79612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Ovary                     |
| * Pancreas               | * Parathyroid Gland        | Peripheral Nerve          | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | Spinal Cord               | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |
| * Uterus                 |                            |                           |                             |

MISSING

- \* Thymus

OBSERVATIONS

- |   |                                  |                   |
|---|----------------------------------|-------------------|
| * Bone  | Osteosarcoma                     |                   |
| [ Osteosarcoma TGLS = 1-21 ]  |                                  |                   |
| * Kidney  | Nephropathy                      | Minimal           |
| * Liver   | Infiltration Cellular            | Mixed Cell, Mild  |
|   | Osteosarcoma                     | Metastatic (Bone) |
| Note: Metastatic lesion of osteosarcoma in liver (on slide 6) is of minute size, but of certain identity. |                                  |                   |
| * Lung  | Osteosarcoma                     | Metastatic (Bone) |
| [ Osteosarcoma TGLS = 2-2 ]   |                                  |                   |
| * Ovary   |                                  |                   |
| Note: One ovary is missing.   |                                  |                   |
| * Spleen  | Hematopoietic Cell Proliferation | Moderate          |

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Diffuse, Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-21 ]			
* Ovary		Tubulostromal Adenoma	
[ Tubulostromal Adenoma TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 351

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Moderate
* Kidney		Congestion	Moderate
[ Congestion TGLS = 6-5 ]			
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
[ Hepatocellular Carcinoma TGLS = 1-6, 2-21 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: Metastatic lesion of hepatocellular carcinoma in lung is very small--the section of the lesion in the lung consisting of less than two dozen hepatocytes.			
* Spleen		Hematopoietic Cell Proliferation	Mild
Tooth	Peridont Tiss	Inflammation	Chronic, Moderate
* Uterus		Angiectasis	Focal, Moderate
	Endometrium	Hyperplasia	Cystic, Mild
[ Angiectasis TGLS = 4-7 ]			
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Clitoral Gland           | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Liver                  | * Lung                     | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Ovary                   | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         | * Skin                      |
| * Spleen                 | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

MISSING

- \* Gallbladder

OBSERVATIONS

- |   |             |                         |                  |
|---|-------------|-------------------------|------------------|
| * Stomach, Forestomach                  |             | Squamous Cell Papilloma |                  |
| [ Squamous Cell Papilloma TGLS = 3-21 ] |             |                         |                  |
| * Uterus                                | Endometrium | Hydrometra              | Moderate         |
|   |             | Hyperplasia             | Cystic, Moderate |
| [ Hydrometra TGLS = 2-7 ]               |             |                         |                  |
| [ Hyperplasia TGLS = 1-7 ]              |             |                         |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 353

TRT#: 4

SEX: Female

DAY ON TEST: 343

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 97-78809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Salivary Glands  
\* Thyroid Gland

\* Adrenal Medulla  
\* Clitoral Gland  
\* Liver  
\* Mammary Gland  
\* Skin  
\* Trachea

\* Bone  
\* Esophagus  
\* Lung  
\* Nose  
\* Stomach, Forestomach  
\* Uterus

\* Bone Marrow  
\* Heart  
\* Lymph Node, Mandibular  
\* Pancreas  
\* Thymus

MISSING

\* Parathyroid Gland

AUTO PRECLUDES DIAG.

\* Gallbladder  
\* Intestine Small, Duodenum  
\* Spleen

\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Stomach, Glandular

\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Urinary Bladder

\* Intestine Large, Rectum  
\* Kidney

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

\* Ovary

Hemangiosarcoma  
Hemorrhage

Moderate

[ Hemangiosarcoma TGLS = 1-7 ]

[ Hemorrhage TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

- Ovary Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Angiectasis	Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 355

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Hyperplasia	Histiocytic, Focal, Moderate
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2, 3-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Clitoral Gland

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 3-21 ]		Carcinoma	
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
Time Report Requested: 01:19:51  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 357

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Infiltration Cellular Vacuolization Cytoplasmic	Mixed Cell, Minimal Focal, Minimal
* Ovary	Hepatocyte		
Note: One ovary is missing.			
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Mediastinum	Alveolar/Bronchiolar Adenoma	
		Lymphoma Malignant	
	[ Alveolar/Bronchiolar Adenoma TGLS = 7-23 ]		
Lymph Node	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 4-21 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 5-22 ]		
Mesentery		Lymphoma Malignant	
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 2-7 ]		
* Parathyroid Gland		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
	[ Lymphoma Malignant TGLS = 3-6 ]		
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 312

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 97-78210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Infiltration Cellular	Mixed Cell, Mild
* Lung	Metaplasia	Osseous, Marked

Note: Skull, spinal cord, and adjacent vertebrae examined grossly, for possible primary osteosarcoma (as cause of observed paralysis); but primary tumor not found.

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 98-82838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Kidney		Hyperplasia	Lymphoid, Mild
* Liver [ Vacuolization Cytoplasmic TGLS = 3-21 ]	Hepatocyte	Hyperplasia Vacuolization Cytoplasmic	Lymphoid, Focal, Mild Diffuse, Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Ileum  
\* Lung  
\* Ovary  
\* Skin  
\* Thymus

\* Adrenal Medulla  
\* Clitoral Gland  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Spleen  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Mammary Gland  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Urinary Bladder

\* Bone Marrow  
\* Gallbladder  
\* Intestine Small, Duodenum  
\* Kidney  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular

MISSING

\* Intestine Large, Cecum

\* Lymph Node, Mandibular

\* Parathyroid Gland

INSUFFICIENT TISSUE

\* Thyroid Gland

OBSERVATIONS

\* Liver  
Hepatocellular Adenoma  
Infiltration Cellular

Mixed Cell, Minimal

[ Hepatocellular Adenoma TGLS = 2-21 ]

\* Uterus  
Endometrium

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
Tissue NOS	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Carcinoma TGLS = 3-21 ]			
* Lung		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 701

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 98-82631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                 |                           |                      |
|--------------------------|-----------------|---------------------------|----------------------|
| * Bone                   | * Bone Marrow   | * Brain                   | * Clitoral Gland     |
| * Esophagus              | * Heart         | * Intestine Large, Rectum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Mammary Gland | * Parathyroid Gland       | * Salivary Glands    |
| * Thyroid Gland          | * Trachea       |                           |                      |

MISSING

- \* Urinary Bladder

AUTO PRECLUDES DIAG.

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | * Gallbladder            | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney                 | * Liver                     | * Lymph Node, Mesenteric | * Nose                     |
| * Ovary                  | * Pancreas                  | * Pituitary Gland        | * Spleen                   |
| * Stomach, Forestomach   | * Stomach, Glandular        | * Thymus                 |                            |

OBSERVATIONS

- |              |             |                |                     |
|--------------|-------------|----------------|---------------------|
| Blood Vessel | Aorta       | Mineralization | Moderate            |
| * Lung       |             | Congestion     | Mild                |
|              |             | Edema          | Focal, Moderate     |
| * Skin       | Subcut Tiss | Angiectasis    | Focal, Mild         |
| * Uterus     | Endometrium | Carcinoma      |                     |
|              |             | Hydrometra     | Moderate            |
|              |             | Inflammation   | Suppurative, Marked |

[ Carcinoma TGLS = 1-7 ]

[ Hydrometra TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 618

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 97-81032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Bone [ Osteosarcoma TGLS = 1-21 ]	Femur	Osteosarcoma	
* Kidney		Nephropathy	Minimal
* Lung [ Osteosarcoma TGLS = 4-2 ]		Osteosarcoma	Metastatic (Bone)
* Ovary Note: One ovary is missing.			
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Moderate
* Uterus [ Hyperplasia TGLS = 5-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Bone Femur Osteosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Gallbladder             |
| * 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                     | * Ovary                   |
| * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          | * Skin                    |
| * Spleen                    | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   |                          |                            |                           |

MISSING

- \* Urinary Bladder

OBSERVATIONS

- |                        |               |             |                  |
|------------------------|---------------|-------------|------------------|
| * Pituitary Gland      | Pars Distalis | Hyperplasia | Focal, Moderate  |
| * Stomach, Forestomach | Epithelium    | Hyperplasia | Mild             |
| * Uterus               | Endometrium   | Hyperplasia | Cystic, Moderate |

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Mammary Gland  
\* Salivary Glands  
\* Thyroid Gland

\* Adrenal Medulla  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Spleen  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Thymus

OBSERVATIONS

\* Liver  
\* Nose  
\* Ovary  
\* Skin  
    [ Hemangiosarcoma TGLS = 1-21 ]  
\* Stomach, Forestomach  
    [ Squamous Cell Papilloma TGLS = 4-23 ]  
\* Uterus  
    [ Hyperplasia TGLS = 2-7 ]

Glands, Mucosa  
  
Subcut Tiss  
  
Endometrium

Infiltration Cellular  
Dilatation  
Cyst  
Hemangiosarcoma  
  
Squamous Cell Papilloma  
  
Hyperplasia

Mixed Cell, Minimal  
Focal, Mild  
  
  
  
  
Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 5-22 ]		Carcinoma	
* Liver [ Lymphoma Malignant TGLS = 4-21 ]		Infiltration Cellular Lymphoma Malignant	Mixed Cell, Mild
Lymph Node [ Lymphoma Malignant TGLS = 3-7 ]	Pancreatic	Lymphoma Malignant	
Mesentery		Carcinoma	Metastatic (Intestine Large, Cecum)
* Ovary		Cyst	Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 690

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 98-81935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Basophilic Focus Hepatocellular Adenoma Mixed Cell Focus	Mild
[ Hepatocellular Adenoma TGLS = 4-22 ]			
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Cyst	Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 710

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 98-82206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Bone Marrow Note: Hyperplasia of bone marrow is granulocytic type.	Hyperplasia	Moderate
* Liver [ Hepatocellular Carcinoma TGLS = 3-22 ]	Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Mild
Skeletal Muscle [ Sarcoma TGLS = 1-21 ]	Sarcoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]	Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Adrenal Medulla

\* Bone

\* Bone Marrow

\* Brain

\* Clitoral Gland

\* Esophagus

\* Gallbladder

\* 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

\* Mammary Gland

\* Nose

\* Ovary

\* Pancreas

\* Parathyroid Gland

\* Pituitary Gland

\* Salivary Glands

\* Skin

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Thymus

\* Thyroid Gland

\* Trachea

\* Urinary Bladder

OBSERVATIONS

\* Liver

Hepatocellular Adenoma

Multiple

Infiltration Cellular

Mixed Cell, Minimal

Vacuolization Cytoplasmic

Focal, Minimal

Hepatocyte

[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Gallbladder             |
| * 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  |
| * Mammary Gland             | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Salivary Glands        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                                       |               |                        |                  |
|---------------------------------------|---------------|------------------------|------------------|
| * Liver                               |               | Hepatocellular Adenoma |                  |
| [ Hepatocellular Adenoma TGLS = 2-6 ] |               |                        |                  |
| * Pituitary Gland                     | Pars Distalis | Hyperplasia            | Focal, Moderate  |
| * Uterus                              | Endometrium   | Hyperplasia            | Cystic, Moderate |
| [ Hyperplasia TGLS = 1-7 ]            |               |                        |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 715

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 98-82207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 11-26 ]		Carcinoma	
* Kidney	Renal Tubule	Necrosis	Mild
		Nephropathy	Moderate
* Liver	Centrilobular, Hepatocyte	Fatty Change	Moderate
	Centrilobular, Hepatocyte	Necrosis	Moderate
Lymph Node	Iliac	Hemorrhage	Moderate
	Renal	Hemorrhage	Moderate
	Iliac	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		Lymphoma Malignant	
Note: TGL 5-22 is axillary lymph node; "axillary" not an available site in TDMS. [ Lymphoma Malignant TGLS = 4-8 ] [ Lymphoma Malignant TGLS = 8-24 ] [ Lymphoma Malignant TGLS = 6-23 ] [ Lymphoma Malignant TGLS = 5-22 ] [ Lymphoma Malignant TGLS = 10-25 ]			
* Lymph Node, Mandibular [ Lymphoma Malignant TGLS = 1-8 ]		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 373	<b>TRT#:</b> 6 <b>DOSE:</b> 2500 PPM	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 715 <b>HISTO:</b> 98-82207
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 2-21 ]		Hemorrhage Lymphoma Malignant	Moderate
* Spleen [ Lymphoma Malignant TGLS = 3-6 ]		Lymphoma Malignant	
* Stomach, Glandular		Ulcer	Mild
* Uterus [ Hyperplasia TGLS = 9-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

---

PRIMARY CAUSE OF DEATH - Lymph Node Renal Lymphoma Malignant

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Hemorrhage	Minimal
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 5-7 ]		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 624

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 5-22 ]			
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 6-23 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Cecum		Carcinoma	
* Kidney		Cyst	Mild
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Mild
[ Necrosis TGLS = 2-6 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Mild
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Parathyroid GI			
Note: Parathyroid is on slide 2, in fatty mediastinal tissue adjacent to the thymus.			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
Lymph Node	Iliac	Hyperplasia	Moderate
	Renal	Hyperplasia	Moderate
[ Hyperplasia TGLS = 2-21 ]			
[ Hyperplasia TGLS = 3-22 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Congestion Hepatocellular Adenoma Infiltration Cellular	Focal, Mild  Mixed Cell, Minimal
[ Congestion TGLS = 5-6 ] [ Hepatocellular Adenoma TGLS = 6-21 ]			
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Mild
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 380

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82642

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Liver		Infiltration Cellular Necrosis	Mixed Cell, Minimal Minimal
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 381

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-7 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 2-21 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-6 ]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 661

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-81765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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
* Nose	* Ovary	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	Spinal Cord	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Intestine Large, Cecum

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Infiltration Cellular	Mixed Cell, Moderate
Note: Some cells in this hepatocellular carcinoma show squamous differentiation. [ Hepatocellular Carcinoma TGLS = 3-22 ]			
* Pancreas	Acinus	Atrophy	Diffuse, Mild
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Minimal Focal, Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus Infiltration Cellular	Mixed Cell, Minimal
[ Eosinophilic Focus TGLS = 2-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 3-22 ]			
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney [ Hyperplasia TGLS = 4-5 ]		Hyperplasia	Lymphoid, Mild
* Liver [ Hyperplasia TGLS = 3-21 ]		Hyperplasia	Lymphoid, Focal, Mild
* Lymph Node, Mesenteric		Hyperplasia	Mild
* Spleen [ Congestion TGLS = 2-6 ]		Congestion	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Cyst	Moderate
		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 6-7 ]			
[ Hyperplasia TGLS = 5-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 701

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 98-82646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Islets, Pancreatic
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Stomach, Forestomach	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 3-6 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Mediastinum	Histiocytic Sarcoma	
		Histiocytic Sarcoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 4-2 ]			
[ Histiocytic Sarcoma TGLS = 4-2 ]			
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Salivary Glands		Histiocytic Sarcoma	
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 1-8 ]			
* Spleen		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 6-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Histiocytic Sarcoma	
		Hydrometra	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 385

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 98-82646

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hydrometra TGLS = 5-7 ]

---

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 386

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Pituitary Gland

OBSERVATIONS

* Liver		Clear Cell Focus Hepatocellular Adenoma Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 4-6 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-21 ]			
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hydrometra TGLS = 3-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Pituitary Gland

OBSERVATIONS

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Uterus		Cyst	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
		Hyperplasia	Histiocytic, Focal, Moderate
		Pigmentation	Focal, Moderate
[ Cyst TGLS = 2-21 ]			
[ Hyperplasia TGLS = 2-21 ]			
[ Hyperplasia TGLS = 1-7 ]			
[ Pigmentation TGLS = 2-21 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Congestion	Mild
[ Congestion TGLS = 2-5 ]			
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-21 ]		Infiltration Cellular	Mixed Cell, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 6-7 ]		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 5-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 389

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82650

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Mild
* Ovary		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[ Eosinophilic Focus TGLS = 1-6 ]			
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 391

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Gallbladder	* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Cyst	Minimal
* Brain		Compression	Focal, Mild
[ Compression TGLS = 2-1 ]			
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 4-21 ]			
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82653

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Ovary

**INSUFFICIENT TISSUE**

\* Clitoral Gland

**OBSERVATIONS**

\* Adren Cortex

Note: One adrenal gland is missing.

\* Liver

Infiltration Cellular

Mixed Cell, Minimal

\* Pituitary Gland

Pars Distalis

Adenoma

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 393

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Brain                  | * Esophagus                |
| * Gallbladder             | * 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           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |   |              |                                  |                  |
|---|--------------|----------------------------------|------------------|
| * Bone  |              | Callus                           | Mild             |
| * Bone Marrow                                   |              | Hemorrhage                       | Focal, Moderate  |
| * Clitoral Gland                                |              | Degeneration                     | Cystic, Moderate |
| [ Degeneration TGLS = 1-8 ]                     |              |                                  |                  |
| * Kidney  |              | Hydronephrosis                   | Moderate         |
|   | Renal Tubule | Nephropathy                      | Moderate         |
|   |              | Vacuolization Cytoplasmic        | Moderate         |
| * Liver   |              | Hepatocellular Carcinoma         | Multiple         |
| [ Hepatocellular Carcinoma TGLS = 5-21, 6-22 ]  |              |                                  |                  |
| * Ovary   |              | Cyst                             | Moderate         |
| [ Cyst TGLS = 2-7 ]                             |              |                                  |                  |
| * Spleen  |              | Hematopoietic Cell Proliferation | Moderate         |
| [ Hematopoietic Cell Proliferation TGLS = 4-6 ] |              |                                  |                  |
| * Uterus  |              | Atrophy                          | Moderate         |
| [ Atrophy TGLS = 3-7 ]                          |              |                                  |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Clitoral Gland

INSUFFICIENT TISSUE

\* Lymph Node, Mesenteric

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
Note: One adrenal gland is missing.			
* Kidney	Renal Tubule	Casts Protein Congestion	Mild Mild
[ Congestion TGLS = 5-5 ]			
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:51

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 671

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 98-81885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Clitoral Gland           | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Mammary Gland          | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Trachea                 | * Urinary Bladder           |
| * Uterus                 |                            |                           |                             |

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |                                     |              |                       |                  |
|-------------------------------------|--------------|-----------------------|------------------|
| * Kidney                            |              | Lymphoma Malignant    |                  |
|                                     |              | Nephropathy           | Marked           |
|                                     | Renal Tubule | Pigmentation          | Mild             |
| [ Nephropathy TGLS = 5-5 ]          |              |                       |                  |
| * Liver                             |              | Infiltration Cellular | Mixed Cell, Mild |
|                                     |              | Lymphoma Malignant    |                  |
| Lymph Node                          | Iliac        | Lymphoma Malignant    |                  |
|                                     | Inguinal     | Lymphoma Malignant    |                  |
|                                     | Mediastinal  | Lymphoma Malignant    |                  |
|                                     | Pancreatic   | Lymphoma Malignant    |                  |
|                                     | Renal        | Lymphoma Malignant    |                  |
| [ Lymphoma Malignant TGLS = 8-22 ]  |              |                       |                  |
| [ Lymphoma Malignant TGLS = 3-7 ]   |              |                       |                  |
| [ Lymphoma Malignant TGLS = 10-24 ] |              |                       |                  |
| [ Lymphoma Malignant TGLS = 9-23 ]  |              |                       |                  |
| [ Lymphoma Malignant TGLS = 2-21 ]  |              |                       |                  |
| * Lymph Node, Mandibular            |              | Lymphoma Malignant    |                  |
| [ Lymphoma Malignant TGLS = 1-8 ]   |              |                       |                  |
| * Lymph Node, Mesenteric            |              | Lymphoma Malignant    |                  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 395	<b>TRT#:</b> 6 <b>DOSE:</b> 2500 PPM	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 671 <b>HISTO:</b> 98-81885
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lymphoma Malignant TGLS = 7-5 ]			
* Ovary		Cyst	Moderate
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Lymph Node Renal Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
Time Report Requested: 01:19:51  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 396

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	Lacrimal Gland	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	Tissue NOS	* Trachea	* Urinary Bladder

OBSERVATIONS

* Ovary		Cyst	Multiple, Moderate
[ Cyst TGLS = 1-7 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:51  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 397

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82657

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-2 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Moderate
	Periovarn Tiss	Inflammation	Chronic, Moderate
[ Cyst TGLS = 2-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Atrophy	Focal, Marked
[ Atrophy TGLS = 8-1 ]			
* Clitoral Gland		Degeneration	Cystic, Mild
[ Degeneration TGLS = 5-8 ]			
* Kidney	Renal Tubule	Casts Protein	Mild
		Cyst	Mild
* Liver	Centrilobular, Hepatocyte	Fatty Change	Moderate
		Hemangiosarcoma	
[ Fatty Change TGLS = 6-6 ]			
[ Hemangiosarcoma TGLS = 1-21 ]			
* Mammary Gland		Ectasia	Mild
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Intermed	Adenoma	
[ Adenoma TGLS = 9-1 ]			
* Skin	Subcut Tiss	Edema	Mild
[ Edema TGLS = 7-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Focal, Mild
[ Pigmentation TGLS = 3-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Thymoma Malignant	
[ Thymoma Malignant TGLS = 11-23 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 399

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82444

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Cyst

Hyperplasia

Mild

Cystic, Mild

[ Hyperplasia TGLS = 4-7 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82659

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**INSUFFICIENT TISSUE**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 401

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hydrometra	Moderate
[ Hydrometra TGLS = 2-7 ]		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 402

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 98-82661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Islets, Pancreatic

\* Adrenal Medulla  
\* Mammary Gland

\* Bone  
\* Nose

\* Bone Marrow  
\* Ovary

MISSING

\* Brain  
\* Lung  
\* Salivary Glands  
\* Urinary Bladder

\* Clitoral Gland  
\* Lymph Node, Mandibular  
\* Thymus

\* Esophagus  
\* Parathyroid Gland  
\* Thyroid Gland

\* Heart  
\* Pituitary Gland  
\* Trachea

AUTO PRECLUDES DIAG.

\* Gallbladder  
\* Intestine Small, Duodenum  
\* Lymph Node, Mesenteric  
\* Stomach, Glandular

\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Pancreas

\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Spleen

\* Intestine Large, Rectum  
\* Kidney  
\* Stomach, Forestomach

OBSERVATIONS

\* Liver  
Lymph Node  
[ Sarcoma TGLS = 3-23 ]  
[ Sarcoma TGLS = 2-22 ]  
Mesentery  
\* Skin  
[ Sarcoma TGLS = 1-21, 2-22 ]  
\* Uterus

Inguinal  
Renal  
  
  
Subcut Tiss  
Endometrium

Infiltration Cellular  
Sarcoma  
Sarcoma  
  
Sarcoma  
Sarcoma  
Hyperplasia

Mixed Cell, Mild  
Metastatic (Skin)  
Metastatic (Skin)  
  
Metastatic (Skin)  
  
Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 403

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 2-8 ]		Degeneration	Cystic, Moderate
Harderian Gland [ Carcinoma TGLS = 3-21 ]		Carcinoma	
* Intestine Large, Cecum [ Carcinoma TGLS = 4-22 ]		Carcinoma	
* Liver [ Hepatocellular Adenoma TGLS = 8-23 ]		Hepatocellular Adenoma	
* Ovary [ Cystadenoma TGLS = 6-7 ]		Cystadenoma	
* Uterus [ Hyperplasia TGLS = 5-7 ]	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 404

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Thymus

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thyroid Gland

OBSERVATIONS

- \* Liver
- \* Stomach, Forestomach
- \* Uterus

Epithelium

Endometrium

Infiltration Cellular

Hyperplasia

Hydrometra

Hyperplasia

Mixed Cell, Minimal

Mild

Mild

Cystic, Moderate

[ Hydrometra TGLS = 2-7 ]

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 405

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

OBSERVATIONS

- \* Liver  
[ Hepatocellular Adenoma TGLS = 3-21 ]
- \* Thyroid Gland
- \* Uterus  
[ Hydrometra TGLS = 2-7 ]  
[ Hyperplasia TGLS = 1-7 ]

Endometrium

- Hepatocellular Adenoma
- Degeneration
- Hydrometra
- Hyperplasia

- Cystic, Focal, Minimal
- Moderate
- Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 406

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-21 ]			
Mesentery	Artery	Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Angiectasis	Moderate
	Endometrium	Hemorrhage	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	
[ Angiectasis TGLS = 2-7 ]			
[ Hemorrhage TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			
[ Polyp Stromal TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 407

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Liver		Hyperplasia	Lymphoid, Focal, Mild
* Ovary	Interstitial Cell	Hyperplasia	Moderate
		Hyperplasia	Tubular, Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-6 ]			
* Thymus		Angiectasis	Mild
[ Angiectasis TGLS = 1-2 ]			
* Thyroid Gl			
Note: Thyroid gland is on slides 3 and 5.			
Tissue NOS	Abdominal	Cyst	Moderate
[ Cyst TGLS = 3-21 ]			
* Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 5-7 ]			
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 408

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Salivary Glands
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

\* Ovary

OBSERVATIONS

* Kidney		Infiltration Cellular	Mixed Cell, Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 409

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-21 ]		
* Ovary		Luteoma	
	[ Luteoma TGLS = 2-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 410

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung		Teratoma Malignant	Metastatic (Ovary)
Note: Although TGL 3 has characteristics of an epithelial inclusion cyst, it is diagnosed as metastatic teratoma, considering resemblances to teratoma in ovary. [ Teratoma Malignant TGLS = 3-2 ]			
* Ovary		Teratoma Malignant	
Note: Cyst is multilocular in character. [ Teratoma Malignant TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 411

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82669

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Clitoral Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Heart		Infiltration Cellular	Mixed Cell, Minimal
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Ovary Note: One ovary is missing.		Cyst	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
		Hyperplasia	Lymphoid, Mild
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 412

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Ovary

OBSERVATIONS

Harderian Gland		Adenoma	
[ Adenoma TGLS = 1-21 ]			
Lymph Node	Renal	Hyperplasia	Moderate
[ Hyperplasia TGLS = 6-23 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Mesentery		Hemorrhage	Mild
[ Hemorrhage TGLS = 5-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Marked
	Endometrium	Polyp Stromal	
[ Hydrometra TGLS = 4-7 ]			
[ Polyp Stromal TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 413

TRT#: 6

SEX: Female

DAY ON TEST: 553

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 97-80223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
Note: Bone marrow hyperplasia is granulocytic type.			
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Nephropathy	Mild
* Lung	Mediastinum	Sarcoma	Metastatic (Skeletal Muscle)
		Sarcoma	Metastatic (Skeletal Muscle)
Mesentery	Fat	Necrosis	Minimal
		Sarcoma	Metastatic (Skeletal Muscle)
Skeletal Muscle		Sarcoma	
Note: Sarcoma of skeletal muscle is a fibrosarcoma.			
[ Sarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Sarcoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 414

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82671

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 415

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

Harderian Gland		Carcinoma	
Note: Harderian gland tumor is a carcinoma within an adenoma.			
[ Carcinoma TGLS = 4-22 ]			
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-5 ]			
* Ovary	Interstit Cell	Hyperplasia	Moderate
		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 416

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Eosinophilic Focus Hepatocellular Adenoma Infiltration Cellular	Mixed Cell, Mild
[ Eosinophilic Focus TGLS = 7-6 ] [ Hepatocellular Adenoma TGLS = 8-24 ]			
Lymph Node	Iliac Pancreatic Renal	Hyperplasia Hyperplasia Hyperplasia	Lymphoid, Moderate Lymphoid, Moderate Lymphoid, Moderate
[ Hyperplasia TGLS = 4-7 ] [ Hyperplasia TGLS = 5-22 ] [ Hyperplasia TGLS = 6-23 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Ovary		Cystadenoma	Moderate
* Spleen		Congestion Hematopoietic Cell Proliferation Hyperplasia	Moderate Moderate Lymphoid, Mild
[ Congestion TGLS = 2-6 ] [ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia Leiomyosarcoma	Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:52

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 416

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 98-82446

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 3-7 ]

[ Leiomyosarcoma TGLS = 1-21 ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 417

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 2-8 ]		Degeneration	Cystic, Moderate
* Kidney [ Congestion TGLS = 3-5 ]	Renal Tubule	Casts Protein Congestion	Mild Mild
* Liver [ Hematopoietic Cell Proliferation TGLS = 1-6 ] [ Hyperplasia TGLS = 1-6 ]		Infiltration Cellular Hematopoietic Cell Proliferation Hyperplasia	Mixed Cell, Minimal Mild Lymphoid, Mild
* Uterus [ Hyperplasia TGLS = 5-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 418

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2500 PPM

DISP: Terminal Sacrifice

HISTO: 98-82714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Minimal
[ Hepatocellular Adenoma TGLS = 3-22, 4-23 ]			
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Ovary		Angiectasis	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 419

TRT#: 6

SEX: Female

DAY ON TEST: 672

DOSE: 2500 PPM

DISP: Natural Death

HISTO: 98-81886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Lymph Node, Mandibular	* Salivary Glands
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OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 2-9, 2-21 ]		Carcinoma	
* Intestine Large, Cecum [ Sarcoma TGLS = 9-26 ]		Sarcoma	
* Liver [ Sarcoma TGLS = 3-6 ]		Sarcoma	Metastatic (Uncertain Primary Site)
* Lung Lymph Node [ Sarcoma TGLS = 7-7 ]	Mediastinum Pancreatic	Sarcoma Sarcoma	Metastatic (Uncertain Primary Site)
Mesentery [ Sarcoma TGLS = 1-5, 8-25 ]		Sarcoma	Multiple
* Ovary		Cyst	Mild
* Pancreas		Sarcoma	
Skeletal Muscle [ Sarcoma TGLS = 4-22, 10-27 ]		Sarcoma	Multiple
* Skin [ Sarcoma TGLS = 5-23, 6-24 ]	Subcut Tiss	Sarcoma	Multiple
* Stomach, Glandular		Sarcoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Skeletal Muscle Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 419

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 672

**DOSE:** 2500 PPM

**DISP:** Natural Death

**HISTO:** 98-81886

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: A sarcoma of consistent morphology was present in many organs. "Sarcoma"(NOS) was the only term listed in TDMS, for all organs, that reliably named the tumor.

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 420

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 2500 PPM

DISP: Moribund Sacrifice

HISTO: 98-81887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skin	Spinal Cord
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Eosinophilic Focus	
	Hepatocyte	Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-21 ]	Vacuolization Cytoplasmic	Focal, Mild
* Ovary		Cyst	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Minimal
* Stomach, Glandular		Ulcer	Mild
* Uterus		Angiectasis	Mild
		[ Angiectasis TGLS = 1-7 ]	

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 421

TRT#: 8

SEX: Female

DAY ON TEST: 609

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Mild Minimal
* Liver	Renal Tubule	Pigmentation Eosinophilic Focus Hepatocellular Adenoma Infiltration Cellular	Mild Mixed Cell, Mild
[ Eosinophilic Focus TGLS = 5-6,6-23 ] [ Hepatocellular Adenoma TGLS = 7-24 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-22 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 4-7 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 659

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-81888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

INSUFFICIENT TISSUE

\* Clitoral Gland

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Moderate
	Hepatocyte	Necrosis	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Carcinoma TGLS = 5-22, 6-23 ]		
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 3-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Thyroid Gland	Follicle	Cyst	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 4-7 ]		

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 581

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

* Ovary	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder
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OBSERVATIONS

* Bone		Hyperostosis	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	
		Necrosis	Mild
	[ Basophilic Focus TGLS = 9-6 ]		
	[ Hepatocellular Carcinoma TGLS = 8-23 ]		
Lymph Node	Renal	Hemangiosarcoma	Metastatic (Mesentery)
	Mediastinal	Hematopoietic Cell Proliferation	Mild
	Mediastinal	Hemorrhage	Mild
	[ Hemangiosarcoma TGLS = 7-22 ]		
	[ Hematopoietic Cell Proliferation TGLS = 10-24 ]		
	[ Hemorrhage TGLS = 10-24 ]		
Mesentery		Hemangiosarcoma	
		Inflammation	Chronic, Mild
	[ Hemangiosarcoma TGLS = 5-21 ]		
	[ Inflammation TGLS = 9-6 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 423	<b>TRT#:</b> 8 <b>DOSE:</b> 5000 PPM	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 581 <b>HISTO:</b> 97-80488
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin [ Edema TGLS = 1-8 ]	Subcut Tiss	Edema	Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 6-6 ]		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Inflammation	Focal, Minimal
		Ulcer	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus [ Hydrometra TGLS = 4-7 ] [ Hyperplasia TGLS = 3-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Mild

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**PRIMARY CAUSE OF DEATH** - Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 640

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Kidney	Artery	Inflammation Nephropathy	Chronic, Mild Minimal
* Liver		Eosinophilic Focus Hepatocellular Carcinoma Infiltration Cellular	Multiple Mixed Cell, Moderate
		[ Eosinophilic Focus TGLS = 4-6 ] [ Hepatocellular Carcinoma TGLS = 1-22, 4-6, 5-23, 6-24 ]	
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Ovary		Cyst	Moderate
Skeletal Muscle		Hemangiosarcoma	
		[ Hemangiosarcoma TGLS = 2-21 ]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		[ Hyperplasia TGLS = 3-7 ]	

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 588

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

\* Thymus

INSUFFICIENT TISSUE

\* Urinary Bladder

OBSERVATIONS

* Kidney	Renal Tubule Renal Tubule	Accumulation, Hyaline Droplet Pigmentation	Moderate Moderate
* Liver Mesentery		Infiltration Cellular Hemangiosarcoma	Mixed Cell, Mild
[ Hemangiosarcoma TGLS = 4-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Urin Bladder			
Note: Urinary bladder tissue was obscured by tumor, TGL 4 on slide 21.			
* Uterus		Hemorrhage Hydrometra	Moderate Moderate
[ Hydrometra TGLS = 5-7 ]			

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 488

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Adrenal Medulla

\* Bone

\* Bone Marrow

\* Brain

\* Clitoral Gland

\* Esophagus

\* Heart

\* Intestine Large, Colon

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

\* Islets, Pancreatic

\* Kidney

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Mammary Gland

\* Nose

\* Ovary

\* Pancreas

\* Parathyroid Gland

\* Pituitary Gland

\* Salivary Glands

\* Skin

\* Stomach, Forestomach

\* Thymus

\* Thyroid Gland

\* Trachea

\* Uterus

AUTO PRECLUDES DIAG.

\* Gallbladder

\* Intestine Large, Cecum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

\* Stomach, Glandular

\* Urinary Bladder

OBSERVATIONS

\* Lung

Alveolar/Bronchiolar Carcinoma

Multiple

[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]

\* Spleen

Hematopoietic Cell Proliferation

Moderate

[ Hematopoietic Cell Proliferation TGLS = 1-6 ]

PRIMARY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 427

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 590

**DOSE:** 5000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-80780

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Mild
[ Angiectasis TGLS = 6-23 ]			
[ Basophilic Focus TGLS = 4-6 ]			
[ Hepatocellular Carcinoma TGLS = 5-22 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Uterus		Inflammation	Suppurative, Moderate
[ Inflammation TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

- Uterus Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 583

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow			
Note: Hyperplasia of bone marrow is of granulocytic type.			
* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
[ Basophilic Focus TGLS = 4-6 ]			
Lymph Node	Inguinal	Hyperplasia	Marked
	Mediastinal	Hyperplasia	Moderate
	Renal	Hyperplasia	Moderate
Note: Hyperplasia of lymph nodes is an active inflammatory type, distinct from lymphoid hyperplasia. Exudate includes abundant plasma cells and neutrophils.			
[ Hyperplasia TGLS = 5-22 ]			
[ Hyperplasia TGLS = 3-21 ]			
* Lymph Node, Mandibular		Hyperplasia	Moderate
[ Hyperplasia TGLS = 6-8 ]			
* Lymph Node, Mesenteric		Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			
* Uterus		Inflammation	Suppurative, Marked
[ Inflammation TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH - Uterus Inflammation

Animal Note: Mouse has pyometra, with leukemoid inflammatory reaction. Toluidine blue stain identified abundant tissue plasma cells by lack of mast cell granules.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 428

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 583

**DOSE:** 5000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-80518

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 567

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adren Cortex			
Note: A cyst of minimal size is present in subcapsular region of the adrenal cortex.			
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Inflammation	Chronic, Focal, Minimal
* Kidney		Cyst	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Clear Cell Focus	
	Hepatocyte, Periportal	Depletion Glycogen	Moderate
		Hepatocellular Adenoma	
	Oval Cell	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
	[ Hepatocellular Adenoma TGLS = 5-23 ]		
	[ Hyperplasia TGLS = 4-24 ]		
* Ovary			
Note: One ovary is missing.			
Skeletal Muscle		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 430

TRT#: 8

SEX: Female

DAY ON TEST: 575

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Focal, Mild
* Liver	Infiltration Cellular	Mixed Cell, Moderate
	Necrosis	Mild
[ Necrosis TGLS = 2-6 ]		
Mesentery	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 3-21, 4-22 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/19/2014  
Time Report Requested: 01:19:52  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 431	<b>TRT#:</b> 8 <b>DOSE:</b> 5000 PPM	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 403 <b>HISTO:</b> 97-78976
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

[ Hyperplasia TGLS = 3-7 ]

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PRIMARY CAUSE OF DEATH - UNCERTAIN

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 432

**TRT#:** 8  
**DOSE:** 5000 PPM

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 671  
**HISTO:** 98-81889

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate
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**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 630

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Rectum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Bone		Hyperostosis	Moderate
Harderian Gland		Adenoma	
[ Adenoma TGLS = 9-25 ]			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Moderate
[ Hepatocellular Adenoma TGLS = 6-22, 7-23 ]			
[ Hepatocellular Carcinoma TGLS = 5-21 ]			
[ Necrosis TGLS = 8-6 ]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-24 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-24 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
Tissue NOS	Abdominal	Hemangiosarcoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 433	<b>TRT#:</b> 8 <b>DOSE:</b> 5000 PPM	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 630 <b>HISTO:</b> 97-81351
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: Hemangiosarcoma of abdominal cavity involves mesentery, urinary bladder, uterus, and muscle of abdominal wall.

[ Hemangiosarcoma TGLS = 3-24 ]

\* Urinary Bladder

Hemangiosarcoma

[ Hemangiosarcoma TGLS = 3-24 ]

\* Uterus

Hemangiosarcoma

Endometrium

Hyperplasia

Cystic, Moderate

[ Hemangiosarcoma TGLS = 3-24 ]

[ Hyperplasia TGLS = 4-7 ]

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<b>PRIMARY CAUSE OF DEATH</b>	- Tissue NOS Abdominal Hemangiosarcoma
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 583

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
Note: Bone marrow hyperplasia is of the granulocytic type.			
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Oval Cell	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Moderate
[ Hepatocellular Adenoma TGLS = 6-6 ]			
Lymph Node	Mediastinal	Sarcoma	Metastatic (Uncertain Primary Site)
[ Sarcoma TGLS = 8-25 ]			
* Lymph Node, Mesenteric		Sarcoma	Metastatic (Mesentery)
Mesentery		Sarcoma	
[ Sarcoma TGLS = 7-24 ]			
* Pancreas		Sarcoma	Metastatic (Mesentery)
Skeletal Muscle		Sarcoma	Multiple
Note: Sarcoma is fibrosarcoma type; "fibrosarcoma" is not available TDMS diagnosis for skeletal muscle in this study.			
[ Sarcoma TGLS = 1-21, 5-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:52

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 434

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 583

**DOSE:** 5000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 97-80496

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 2-7 ]

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**PRIMARY CAUSE OF DEATH**

- Skeletal Muscle Sarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-81890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Rectum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Intestine Large, Colon		Hemangiosarcoma	Metastatic (Mesentery)
Note: Hemangiosarcoma involving colon apparently originated in mesentery.			
[ Hemangiosarcoma TGLS = 7-24 ]			
* Kidney		Lymphoma Malignant	
	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		Lymphoma Malignant	
[ Eosinophilic Focus TGLS = 8-6 ]			
[ Lymphoma Malignant TGLS = 8-6, 10-25 ]			
Lymph Node	Inguinal	Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 7-24, 9-7 ]			
* Skin	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Hemangiosarcoma	Multiple
[ Edema TGLS = 2-22 ]			
[ Hemangiosarcoma TGLS = 1-21, 3-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 435	<b>TRT#:</b> 8 <b>DOSE:</b> 5000 PPM	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 668 <b>HISTO:</b> 98-81890
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 4-6 ]		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 6-7 ]			

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**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 507

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Islets, Pancreatic  
\* Mammary Gland  
\* Pituitary Gland  
\* Thyroid Gland

\* Adrenal Medulla  
\* Clitoral Gland  
\* Liver  
\* Nose  
\* Salivary Glands  
\* Trachea

\* Bone  
\* Esophagus  
\* Lymph Node, Mandibular  
\* Ovary  
\* Skin  
\* Urinary Bladder

\* Bone Marrow  
\* Heart  
\* Lymph Node, Mesenteric  
\* Parathyroid Gland  
\* Stomach, Forestomach

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

\* Gallbladder  
\* Intestine Small, Duodenum

\* Intestine Large, Cecum  
\* Intestine Small, Ileum

\* Intestine Large, Colon  
\* Intestine Small, Jejunum

\* Intestine Large, Rectum  
\* Stomach, Glandular

OBSERVATIONS

\* Adren Cortex  
Note: One adrenal gland is missing.

\* Kidney  
Renal Tubule  
Renal Tubule  
Renal Tubule

\* Lung  
Mesentery  
[ Hemangiosarcoma TGLS = 3-21 ]

\* Pancreas  
\* Spleen  
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]

\* Uterus  
Endometrium

Casts Protein  
Dilatation  
Pigmentation  
Infiltration Cellular  
Hemangiosarcoma

Hemangiosarcoma  
Hematopoietic Cell Proliferation

Hyperplasia

Mild  
Mild  
Mild  
Mixed Cell, Minimal

Metastatic (Mesentery)  
Moderate

Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
[ Hepatocellular Carcinoma TGLS = 3-22 ]			
* Ovary		Cyst	Moderate
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 647

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lung	* Lymph Node, Mandibular	* Salivary Glands	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[ Eosinophilic Focus TGLS = 6-6, 8-25 ]		
	[ Hepatocellular Adenoma TGLS = 7-24 ]		
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 4-22 ]		
Skeletal Muscle		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 5-23, 9-26 ]		
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLS = 3-7 ]		

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 608

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Salivary Glands
* Thymus	* Thyroid Gland	* Trachea	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Kidney	Renal Tubule	Inflammation	Suppurative, Moderate
* Liver		Pigmentation	Moderate
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Moderate
		[ Hepatocellular Carcinoma TGLS = 1-21 ]	
* Spleen	Abdominal	Hematopoietic Cell Proliferation	Moderate
Tissue NOS		Hemangiosarcoma	Multiple

Note: Hemangiosarcomas involve serosa and superficial portions of abdominal viscera. Full extent of involvement obscured by autolytic changes.

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

PRIMARY CAUSE OF DEATH

- Tissue NOS Abdominal Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 696

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-82622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Stomach, Forestomach	* Urinary Bladder	

MISSING

* Esophagus	* Gallbladder	* Heart	* Lung
* Parathyroid Gland	* Salivary Glands	* Thymus	* Thyroid Gland
* Trachea			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Stomach, Glandular

OBSERVATIONS

* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Moderate
	[ Hepatocellular Adenoma TGLS = 2-6 ]		
	Mesentery	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 3-21 ]		
* Skin	Subcut Tiss	Sarcoma	
	[ Sarcoma TGLS = 4-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		
* Uterus		Angiectasis	Mild
	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 444

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Necrosis	Mild
* Parathyroid GI			
Note: Parathyroid gland is on slide 2, embedded against surface of the thymus. This is a normal variant from the usual location adjacent to thyroid.			
Skeletal Muscle		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 4-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 702

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-82623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Clitoral Gland		Degeneration Pigmentation	Cystic, Moderate Mild
[ Pigmentation TGLS = 1-8 ]			
* Liver		Eosinophilic Focus Hepatocellular Carcinoma Hyperplasia Infiltration Cellular Necrosis	Lymphoid, Focal, Moderate Mixed Cell, Moderate Moderate
[ Hepatocellular Carcinoma TGLS = 7-22, 8-23 ]			
[ Necrosis TGLS = 6-6 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 9-24 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]			
Tooth	Peridont Tiss	Inflammation	Chronic, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:52

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 442

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 702

**DOSE:** 5000 PPM

**DISP:** Natural Death

**HISTO:** 98-82623

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Necrosis

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 610

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver	Oval Cell	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Moderate
	Hepatocyte	Tension Lipidosis	
[ Necrosis TGLS = 5-6 ]			
* Lung		Hemangiosarcoma	Metastatic (Skeletal Muscle)
* Pancreas	Acinus	Atrophy	Diffuse, Marked
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-22 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Thymus		Atrophy	Moderate
[ Atrophy TGLS = 6-2 ]			
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 522

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
	Renal Tubule	Casts Protein	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Marked
* Liver	Oval Cell	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Moderate
		Inflammation	Focal, Moderate
		Necrosis	Marked
	[ Necrosis TGLS = 4-6 ]		
* Lung		Infiltration Cellular	Mixed Cell, Moderate
Mesentery		Inflammation	Chronic, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Uterus	Cervix	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		

PRIMARY CAUSE OF DEATH

- Uterus Cervix Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Basophilic Focus TGLS = 7-25 ]		
	[ Eosinophilic Focus TGLS = 7-25, 9-27 ]		
	[ Hepatocellular Carcinoma TGLS = 4-22, 5-23, 6-24 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Skeletal Muscle		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 8-26 ]		
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 11-4 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 445

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 688

**DOSE:** 5000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 98-81936

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hydrometra TGLS = 3-7 ]

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PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Intestine Large, Cecum	Carcinoma Inflammation	Chronic, Moderate
[ Carcinoma TGLS = 2-21 ]		
[ Inflammation TGLS = 9-24 ]		
* Liver	Angiectasis Cholangioma Eosinophilic Focus Hepatocellular Adenoma Infiltration Cellular Mixed Cell Focus Necrosis	Mild  Multiple Mixed Cell, Moderate  Minimal
Note: Cholangiocarcinoma is of microscopic size and is within a hepatocellular carcinoma. Is on slide 6.		
[ Angiectasis TGLS = 3-6, 4-6 ]		
[ Eosinophilic Focus TGLS = 7-6, 12-25 ]		
[ Hepatocellular Adenoma TGLS = 5-6, 6-23 ]		
* Lymph Node, Mesenteric	Hyperplasia	Moderate
[ Hyperplasia TGLS = 8-5 ]		
* Spleen	Hematopoietic Cell Proliferation Hyperplasia	Moderate Lymphoid, Mild
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		
[ Hyperplasia TGLS = 1-6 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 446

**TRT#:** 8  
**DOSE:** 5000 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 98-82448

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

Degeneration

Cystic, Focal, Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 447

TRT#: 8

SEX: Female

DAY ON TEST: 675

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-81891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Rectum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Adrenal Medulla

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Stomach, Glandular		

OBSERVATIONS

* Intestine Large, Cecum		Carcinoma	
* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Hepatocholangiocarcinoma	
		Mixed Cell Focus	
		Necrosis	Mild
[ Hepatocholangiocarcinoma TGLS = 6-22 ]			
* Lung		Hemangiosarcoma	Metastatic (Uncertain Primary Site)
		Infiltration Cellular	Mixed Cell, Moderate
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-7 ]			
* Ovary		Cyst	Moderate
* Skin	Subcut Tiss	Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 1-21, 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:52

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 447

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 675

**DOSE:** 5000 PPM

**DISP:** Natural Death

**HISTO:** 98-81891

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 661

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Clitoral Gland

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Minimal
	[ Hepatocellular Adenoma TGLS = 4-23, 5-24, 6-25 ]		
	Skeletal Muscle	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 685

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-82624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Clitoral Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Congestion	Minimal
	Pelvis	Dilatation	Moderate
	Pelvis	Hemorrhage	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Moderate
[ Congestion TGLS = 7-5 ]			
[ Dilatation TGLS = 6-5 ]			
[ Hemorrhage TGLS = 6-5 ]			
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Moderate
[ Necrosis TGLS = 4-6, 9-22 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Moderate
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2, 8-2-1 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 449	<b>TRT#:</b> 8 <b>DOSE:</b> 5000 PPM	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 685 <b>HISTO:</b> 98-82624
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Lymph Node	Mediastinal	Hemorrhage	Moderate
Mesentery [ Hemangiosarcoma TGLS = 5-21, 10-23 ]		Hemangiosarcoma	Multiple
Skeletal Muscle [ Hemangiosarcoma TGLS = 11-24 ]		Hemangiosarcoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ]		Hematopoietic Cell Proliferation	Marked
* Uterus [ Hemangiosarcoma TGLS = 5-21 ]		Hemangiosarcoma	

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PRIMARY CAUSE OF DEATH - Uterus Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 444

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-79065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Thymus

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Nose
- Peripheral Nerve
- Spinal Cord
- \* Thyroid Gland

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Ovary
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

OBSERVATIONS

- \* Spleen  
[ Depletion Cellular TGLS = 1-6 ]
- \* Uterus

Endometrium

Depletion Cellular  
Hyperplasia

Mild  
Cystic, Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 451

TRT#: 8

SEX: Female

DAY ON TEST: 669

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-81892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Salivary Glands
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Thyroid Gland		

OBSERVATIONS

* Kidney	Renal Tubule Renal Tubule	Accumulation, Hyaline Droplet Pigmentation	Mild Moderate
* Liver		Angiectasis Eosinophilic Focus Hepatocellular Adenoma Mixed Cell Focus	Mild Multiple
[ Angiectasis TGLS = 4-6 ] [ Hepatocellular Adenoma TGLS = 5-23 ]			
Mesentery		Hemangiosarcoma	Multiple
[ Hemangiosarcoma TGLS = 6-24 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21, 2-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 452

TRT#: 8

SEX: Female

DAY ON TEST: 597

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Minimal
	[ Infiltration Cellular TGLS = 2-6 ]		
* Lung		Infiltration Cellular	Mixed Cell, Mild
	Mesentery	Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 3-21, 5-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 453

TRT#: 8

SEX: Female

DAY ON TEST: 629

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Ovary	* Salivary Glands	* Urinary Bladder	
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 6-22, 7-23, 8-24, 9-25 ]		
	Lymph Node	Hyperplasia	Lymphoid, Moderate
	Mesentery	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 5-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Uterus		Hydrometra	Moderate
	[ Hydrometra TGLS = 4-7 ]		

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 454

TRT#: 8

SEX: Female

DAY ON TEST: 679

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Parathyroid Gland

AUTO PRECLUDES DIAG.

\* Intestine Small, Ileum

OBSERVATIONS

\* Int Sm Ileum

Note: Although mouse was sacrificed moribund, there is autolysis in ileum.

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	[ Hepatocellular Adenoma TGLS = 4-6, 5-22 ]		
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Thymus		Angiectasis	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 455

TRT#: 8

SEX: Female

DAY ON TEST: 567

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Clitoral Gland  
\* Skin

\* Adrenal Medulla  
\* Heart  
\* Stomach, Forestomach

\* Bone  
\* Lung  
\* Uterus

\* Bone Marrow  
\* Ovary

MISSING

\* Brain  
\* Nose  
\* Thyroid Gland

\* Esophagus  
\* Parathyroid Gland  
\* Trachea

\* Gallbladder  
\* Pituitary Gland

\* Lymph Node, Mandibular  
\* Salivary Glands

AUTO PRECLUDES DIAG.

\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Mammary Gland  
\* Thymus

\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Pancreas  
\* Urinary Bladder

\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Spleen

\* Intestine Small, Duodenum  
\* Lymph Node, Mesenteric  
\* Stomach, Glandular

OBSERVATIONS

\* Kidney  
\* Liver

Hepatocyte

[ Hepatocellular Adenoma TGLS = 2-22 ]

[ Hepatocellular Carcinoma TGLS = 1-21 ]

Mineralization  
Hepatocellular Adenoma  
Hepatocellular Carcinoma  
Infiltration Cellular  
Necrosis

Focal, Moderate

Mixed Cell, Minimal  
Focal, Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 456

TRT#: 8

SEX: Female

DAY ON TEST: 658

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-81894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Clitoral Gland  
\* Stomach, Forestomach

\* Adrenal Medulla  
\* Mammary Gland  
\* Urinary Bladder

\* Bone  
\* Ovary  
\* Uterus

\* Bone Marrow  
\* Skin

MISSING

\* Brain  
\* Lymph Node, Mesenteric  
\* Salivary Glands

\* Heart  
\* Nose  
\* Thymus

\* Lung  
\* Parathyroid Gland  
\* Thyroid Gland

\* Lymph Node, Mandibular  
\* Pituitary Gland  
\* Trachea

AUTO PRECLUDES DIAG.

\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic

\* Gallbladder  
\* Intestine Small, Duodenum  
\* Pancreas

\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Stomach, Glandular

\* Intestine Large, Colon  
\* Intestine Small, Jejunum

OBSERVATIONS

\* Kidney  
Renal Tubule  
Renal Tubule  
Note: Autolysis of left kidney precludes diagnosis of possible lesion(s) of that organ.

Accumulation, Hyaline Droplet  
Pigmentation

Mild  
Moderate

\* Liver  
[ Eosinophilic Focus TGLS = 3-6 ]  
Mesentery  
[ Hemangiosarcoma TGLS = 2-21 ]

Hepatocyte

Eosinophilic Focus  
Infiltration Cellular  
Necrosis

Mixed Cell, Moderate  
Focal, Mild

\* Spleen  
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]

Hemangiosarcoma

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 457

TRT#: 8

SEX: Female

DAY ON TEST: 624

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic		

OBSERVATIONS

* Adren Medulla			
Note: Medulla of one adrenal gland is missing.			
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
[ Eosinophilic Focus TGLS = 5-22 ]			
[ Hepatocellular Adenoma TGLS = 6-6, 4-21, 10-24 ]			
[ Vacuolization Cytoplasmic TGLS = 3-6, 4-21, 11-25 ]			
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 9-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 458

TRT#: 8

SEX: Female

DAY ON TEST: 661

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-81895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum
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INSUFFICIENT TISSUE

* Pituitary Gland
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OBSERVATIONS

* Bone	Femur	Callus	Moderate
Note: Probable cause of callus of femur is a fracture due to erosion of cortical bone by growth of hemangiosarcoma (TGL 2, slide 21) of adjacent muscle.			
* Bone Marrow		Hyperplasia	Moderate
Note: Bone marrow hyperplasia is granulocytic type.			
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Moderate
	Hepatocyte	Necrosis	Focal, Minimal
[ Hepatocellular Adenoma TGLS = 4-6, 5-22 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-23 ]			
* Ovary		Cyst	Mild
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Skin	Subcut Tiss	Edema	Moderate
[ Edema TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 458

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 661

**DOSE:** 5000 PPM

**DISP:** Natural Death

**HISTO:** 98-81895

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 459

TRT#: 8

SEX: Female

DAY ON TEST: 710

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Liver		Eosinophilic Focus Hepatocellular Carcinoma Infiltration Cellular	Multiple Mixed Cell, Mild
[ Hepatocellular Carcinoma TGLS = 2-22, 4-23, 5-24 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 460

TRT#: 8

SEX: Female

DAY ON TEST: 710

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
[ Eosinophilic Focus TGLS = 4-6, 8-25 ]			
[ Hepatocellular Carcinoma TGLS = 3-22 ]			
Lymph Node	Iliac	Sarcoma	Metastatic (Skin)
	Renal	Sarcoma	Metastatic (Skin)
[ Sarcoma TGLS = 6-23 ]			
[ Sarcoma TGLS = 7-24 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-5 ]			
Skeletal Muscle		Sarcoma	
[ Sarcoma TGLS = 10-26 ]			
* Skin	Subcut Tiss	Inflammation	Chronic, Focal, Moderate
	Subcut Tiss	Sarcoma	
[ Sarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 9-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 460

**TRT#:** 8  
**DOSE:** 5000 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 710  
**HISTO:** 98-82209

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hydrometra  
Hyperplasia

Moderate  
Cystic, Moderate

---

[ Hyperplasia TGLS = 5-7 ]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 461

TRT#: 8

SEX: Female

DAY ON TEST: 516

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-79912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Clitoral Gland           | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Ovary                     |
| * Pancreas               | * Pituitary Gland          | * Salivary Glands         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |
| * Uterus                 |                            |                           |                             |

MISSING

- |                     |                 |
|---------------------|-----------------|
| * Parathyroid Gland | * Thyroid Gland |
|---------------------|-----------------|

AUTO PRECLUDES DIAG.

- \* Gallbladder

INSUFFICIENT TISSUE

- \* Thymus

OBSERVATIONS

- |          |   |                                  |                |
|----------|---|----------------------------------|----------------|
| * Kidney | Renal Tubule                                    | Pigmentation                     | Moderate       |
| * Liver  |   | Eosinophilic Focus               |                |
|          | Hepatocyte                                      | Vacuolization Cytoplasmic        | Focal, Minimal |
| * Lung   |   | Alveolar/Bronchiolar Adenoma     |                |
|          | [ Alveolar/Bronchiolar Adenoma TGLS = 3-2-1 ]   |                                  |                |
|          | Mesentery                                       | Hemangiosarcoma                  |                |
|          | [ Hemangiosarcoma TGLS = 4-21 ]                 |                                  |                |
| * Spleen |   | Hematopoietic Cell Proliferation | Moderate       |
|          | [ Hematopoietic Cell Proliferation TGLS = 2-6 ] |                                  |                |

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 462

TRT#: 8

SEX: Female

DAY ON TEST: 722

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-82625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney	Renal Tubule Renal Tubule	Accumulation, Hyaline Droplet Pigmentation	Moderate Marked
* Liver		Eosinophilic Focus Hepatocellular Adenoma Infiltration Cellular	Multiple Mixed Cell, Moderate
	[ Hepatocellular Adenoma TGLS = 7-6, 8-25, 9-26, 10-27, 11-28 ]		
* Lung		Infiltration Cellular	Mixed Cell, Moderate
Mesentery		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 3-22, 6-24 ]		
Skeletal Muscle		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 4-23, 12-29 ]		
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 5-6 ]		
Tooth	Peridont Tiss	Inflammation	Chronic, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:52

**First Dose M/F:** NA / NA

**Lab:** SRI

---

**ANIMAL ID:** 462

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 722

**DOSE:** 5000 PPM

**DISP:** Natural Death

**HISTO:** 98-82625

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 463

TRT#: 8

SEX: Female

DAY ON TEST: 690

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 6-23, 7-24 ]		
	Mesentery	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 3-22 ]		
* Ovary		Cyst	Mild
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Inflammation	Focal, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 4-7 ]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 548

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum
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OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 6-23 ]		Carcinoma	
* Kidney	Renal Tubule Renal Tubule	Accumulation, Hyaline Droplet Pigmentation	Mild Moderate
* Liver		Eosinophilic Focus Infiltration Cellular	Mixed Cell, Moderate
* Lung	Artery, Mediastinum	Inflammation	Chronic, Moderate
Skeletal Muscle [ Hemangiosarcoma TGLS = 2-21, 3-22 ]		Hemangiosarcoma	Multiple
* Skin [ Edema TGLS = 1-8 ]	Subcut Tiss	Edema	Mild
* Spleen [ Hematopoietic Cell Proliferation TGLS = 5-6 ]		Hematopoietic Cell Proliferation	Marked
* Uterus [ Hyperplasia TGLS = 4-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 465

TRT#: 8

SEX: Female

DAY ON TEST: 569

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-80491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Skin	Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney	Renal Tubule	Casts Protein	Mild
* Liver		Eosinophilic Focus	
	Hepatocyte	Infiltration Cellular	Mixed Cell, Minimal
		Vacuolization Cytoplasmic	Focal, Mild
[ Eosinophilic Focus TGLS = 3-6 ]			
[ Vacuolization Cytoplasmic TGLS = 3-6 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Parathyroid Gland		Cyst	Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 466

TRT#: 8

SEX: Female

DAY ON TEST: 693

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum [ Carcinoma TGLS = 7-23 ]		Carcinoma	
* Liver [ Hepatocellular Adenoma TGLS = 2-6 ]		Hepatocellular Adenoma Infiltration Cellular	Multiple Mixed Cell, Moderate
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 3-2 ] [ Congestion TGLS = 4-2 ]		Alveolar/Bronchiolar Adenoma Congestion Sarcoma	Mild Metastatic (Mesentery)
* Lymph Node, Mesenteric Mesentery [ Hemangiosarcoma TGLS = 1-21 ]		Hyperplasia Hemangiosarcoma	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland Tissue NOS Note: Lesion involves the thoracic wall and thoracic cavity. [ Sarcoma TGLS = 5-22 ]	Thoracic	Degeneration Sarcoma	Cystic, Focal, Minimal
* Uterus [ Hyperplasia TGLS = 6-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Tissue NOS Thoracic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** o-Nitrotoluene

**CAS Number:** 88-72-2

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 01:19:52

**First Dose M/F:** NA / NA

**Lab:** SRI

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**ANIMAL ID:** 466

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 693

**DOSE:** 5000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 98-82626

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 467

TRT#: 8

SEX: Female

DAY ON TEST: 409

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-78990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 468

TRT#: 8

SEX: Female

DAY ON TEST: 677

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-81896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Stomach, Forestomach	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Salivary Glands	* Spleen	* Thymus
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Ovary	* Stomach, Glandular

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Necrosis	Minimal
	[ Eosinophilic Focus TGLS = 5-6, 6-6 ]		
* Lung		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Mixed Cell, Mild
	[ Hemorrhage TGLS = 7-2 ]		
	[ Hyperplasia TGLS = 7-2 ]		
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 2-21 ]		
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 4-22 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 469

TRT#: 8

SEX: Female

DAY ON TEST: 619

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 97-81024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 6-24 ]		Carcinoma	
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver [ Hepatocellular Carcinoma TGLS = 3-22 ]		Eosinophilic Focus Hepatocellular Carcinoma	
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 5-2 ]	Bronchus, Glands	Alveolar/Bronchiolar Adenoma Cyst	Mild
Skeletal Muscle [ Hemangiosarcoma TGLS = 1-21 ]		Hemangiosarcoma	
* Skin [ Hemangiosarcoma TGLS = 4-23 ]	Subcut Tiss	Hemangiosarcoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 470

TRT#: 8

SEX: Female

DAY ON TEST: 686

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-81938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Gallbladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	[ Hepatocellular Adenoma TGLS = 5-6 ]		
	Skeletal Muscle	Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 4-7 ]		

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 471

TRT#: 8

SEX: Female

DAY ON TEST: 605

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
	[ Hepatocellular Adenoma TGLS = 4-6, 8-22, 9-23 ]	Necrosis	Focal, Mild
	[ Necrosis TGLS = 8-22 ]		
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 3-5, 6-21, 7-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Uterus		Hydrometra	Moderate
	[ Hydrometra TGLS = 5-7 ]		

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 472

TRT#: 8

SEX: Female

DAY ON TEST: 686

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 98-82627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Adrenal Medulla

\* Bone

\* Bone Marrow

\* Brain

\* Clitoral Gland

\* Esophagus

\* Heart

\* Lymph Node, Mandibular

\* Mammary Gland

\* Nose

\* Parathyroid Gland

\* Pituitary Gland

\* Salivary Glands

\* Skin

\* Thymus

\* Thyroid Gland

\* Trachea

MISSING

\* Islets, Pancreatic

\* Ovary

\* Pancreas

AUTO PRECLUDES DIAG.

\* Gallbladder

\* Intestine Large, Cecum

\* Intestine Large, Colon

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

\* Kidney

\* Lymph Node, Mesenteric

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Urinary Bladder

\* Uterus

OBSERVATIONS

\* Adren Cortex

Note: One adrenal gland is missing.

\* Kidney

Note: Left kidney is missing.

\* Liver

Hepatocellular Adenoma

[ Hepatocellular Adenoma TGLS = 1-21 ]

\* Lung

Infiltration Cellular

Mixed Cell, Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

Animal Note: Animal was partially cannibalized

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 473

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 4-6, 4-24 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-23 ]			
* Ovary		Luteoma	
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 5-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 474

TRT#: 8

SEX: Female

DAY ON TEST: 579

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-80492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Salivary Glands	* Thymus	* Thyroid Gland
* Trachea			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
	[ Hepatocellular Adenoma TGLS = 8-24 ]	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 4-6, 5-6 ]		
* Lung		Infiltration Cellular	Mixed Cell, Moderate
Lymph Node	Iliac	Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 7-23 ]		
Mesentery		Hemangiosarcoma	Multiple
	[ Hemangiosarcoma TGLS = 3-21, 6-22 ]		
* Ovary		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

- Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 475

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Clear Cell Focus Hepatocellular Adenoma Infiltration Cellular	Multiple Mixed Cell, Minimal
[ Clear Cell Focus TGLS = 3-6 ]			
[ Hepatocellular Adenoma TGLS = 3-6 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 476

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

OBSERVATIONS

Harderian Gland		Carcinoma	
[ Carcinoma TGLS = 3-25 ]			
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Infiltration Cellular	Mixed Cell, Mild
[ Eosinophilic Focus TGLS = 7-27 ]			
[ Hepatocellular Adenoma TGLS = 10-28 ]			
[ Hepatocellular Carcinoma TGLS = 10-29 ]			
* Lung		Carcinoma	Metastatic (Harderian Gland)
* Lymph Node, Mesenteric		Hyperplasia	Moderate
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-23, 4-26 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
[ Hematopoietic Cell Proliferation TGLS = 6-6 ]			
[ Hyperplasia TGLS = 6-6 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 476

**TRT#:** 8  
**DOSE:** 5000 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 98-82430

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hydrometra  
Hyperplasia

Moderate  
Cystic, Moderate

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[ Hydrometra TGLS = 5-7 ]

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 477

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: 98-82431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 7-23 ]		Adenoma	
* Heart		Angiectasis	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
[ Hepatocellular Adenoma TGLS = 4-6 ]			
Mesentery [ Hemangiosarcoma TGLS = 1-21 ]		Hemangiosarcoma	
* Ovary		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 478

TRT#: 8

SEX: Female

DAY ON TEST: 643

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Focal, Minimal
		Hemangiosarcoma	
Mesentery			
[ Hemangiosarcoma TGLS = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Uterus		Hydrometra	Moderate
[ Hydrometra TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 690

DOSE: 5000 PPM

DISP: Moribund Sacrifice

HISTO: 98-82628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Inflammation	Chronic, Focal, Minimal
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	[ Hepatocellular Adenoma TGLS = 9-6, 11-28 ]		
Lymph Node	Inguinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 6-24 ]		
	[ Lymphoma Malignant TGLS = 8-26 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 7-25 ]		
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 3-23 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Ovary		Cyst	Moderate
* Skin		Basal Cell Carcinoma	
	Subcut Tiss	Hemangiosarcoma	Multiple
	Note: Basal cell carcinoma (TGL 10) is pigmented with melanin.		
	[ Basal Cell Carcinoma TGLS = 10-27 ]		
	[ Hemangiosarcoma TGLS = 1-21, 2-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05203-09  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 01:19:52  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 479	<b>TRT#:</b> 8 <b>DOSE:</b> 5000 PPM	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 690 <b>HISTO:</b> 98-82628
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hematopoietic Cell Proliferation TGLS = 4-6 ]	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-6 ]		
* Thyroid Gland	Degeneration	Cystic, Focal, Mild
* Uterus	Hydrometra	Moderate
	Endometrium	Cystic, Moderate
[ Hydrometra TGLS = 5-7 ]	Hyperplasia	

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**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05203-09

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 10/19/2014

Time Report Requested: 01:19:52

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 480

TRT#: 8

SEX: Female

DAY ON TEST: 611

DOSE: 5000 PPM

DISP: Natural Death

HISTO: 97-81031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Pituitary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
[ Eosinophilic Focus TGLS = 5-22 ]			
[ Hepatocellular Adenoma TGLS = 5-22 ]			
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 3-21 ]			
* Ovary		Hemorrhage	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 6-7 ]			
[ Hyperplasia TGLS = 6-7 ]			

PRIMARY CAUSE OF DEATH - Mesentery Hemangiosarcoma

\*\* END OF REPORT \*\*

\* PROTOCOL REQUIRED TISSUE