

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

C Number:	C07272B
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	06/06/1988

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4865

TRT#: 1

SEX: Male

DAY ON TEST: 446

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Ureter	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Minimal
	Mesenteric	Hyperplasia	Lymphoid, Mild
Pancreas	Acinus	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Moderate
Skin	Scrotal	Abscess	Marked
	Ventral	Alopecia	Mild
	Prepuce	Ulcer	Marked
Note: ALOPECIA	TGLs = 6-15		
Note: ABSCESS	TGLs = 5-15		
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

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Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4865

TRT#: 1

SEX: Male

DAY ON TEST: 446

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA TGLs = 4-5.1

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4866 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 729
DOSE: 0 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Note: BONE MARROW--THROMBUS			
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lung	Renal Tubule	Regeneration	Mild
		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Minimal
	Nasolacrim Dct	Hemorrhage	Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 1-15			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4867

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Intestine Small	Ileum	Amyloid Deposition	Moderate
Kidney	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Minimal
Lung	Alveolus	Alveolar/Bronchiolar Adenoma Congestion Infiltration Cellular Infiltration Cellular	Mild Histiocyte, Moderate Lymphocyte, Mild
Note: ALV BRON ADEN	TGLs = 1-4+15		
Lymph Node	Mesenteric Mandibular Mesenteric	Congestion Hyperplasia Hyperplasia	Mild Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Minimal Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4868

TRT#: 1

SEX: Male

DAY ON TEST: 443

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mandibular	Necrosis	Mild
Nose	Olfactory Epi	Degeneration	Mild
Prostate		Inflammation	Acute, Mild
Skin	Subcut Tiss	Inflammation	Acute, Moderate
	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4869

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland
Skin	Testes	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Casts Protein	Mild
	Renal Tubule	Dilatation	Mild
Liver	Renal Tubule	Lymphoma Malignant Mixed	
		Regeneration	Mild
		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
		Lymphoma Malignant Mixed	
Lung		Congestion	Mild
		Hepatocellular Carcinoma	Metastatic (Liver)
		Lymphoma Malignant Mixed	
		Lymphoma Malignant Mixed	
Lymph Node	Mandibular	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Pancreas		Lymphoma Malignant Mixed	
Prostate		Infiltration Cellular	Lymphocyte, Mild

Note: HEPATOCLR CARC TGLs = 4-15.1

Note: LYMPH MAL MIXD TGLs = 1-1 5-15.2

Note: LYMPH MAL IN REGIONAL AND SQ L.N.

* PROTOCOL REQUIRED TISSUE

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Test Compound: Toluene
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Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4869

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 3-15,2-12		
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: INFILTRAT CELL	TGLs = 6-7		
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4870

TRT#: 1

SEX: Male

DAY ON TEST: 291

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Intestine Large	Rectum	Ulcer	Moderate
Kidney	Pelvis	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION TGLs = 4-12			
Liver		Hematopoietic Cell Proliferation	Mild
		Inflammation	Acute, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Skin	Scrotal	Abscess	Marked
Note: ABSCESS TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-12			
Thymus		Hyperplasia	Lymphoid, Moderate
Urethra		Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 5-12			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4870

TRT#: 1

SEX: Male

DAY ON TEST: 291

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4871

TRT#: 1

SEX: Male

DAY ON TEST: 557

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver	Centrilobular	Fatty Change	Minimal
		Infarct	Mild
		Necrosis	Moderate
Note: [NECROSIS] TGLs = 1-15			
Note: CAUSE OF DEATH--NECROSIS			
Lung		Infiltration Cellular	Lymphocyte, Mild
		Mineralization	Minimal
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4872

TRT#: 1

SEX: Male

DAY ON TEST: 669

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Nose	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 1-15		
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 2-15		
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild
	Glandular	Inflammation	Acute, Moderate
Note: INFLAMMATION	TGLs = 3-15.1		
	[Inflammation TGLS = 3-6]		
Testes		Atrophy	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4872

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 669
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4873

TRT#: 1

SEX: Male

DAY ON TEST: 438

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Nose	Lumen	Hemorrhage	Minimal
	Turbinate	Inflammation	Acute, Minimal
Spleen		Pigmentation	Mild
Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4874

TRT#: 1

SEX: Male

DAY ON TEST: 434

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
Nose	Olfactory Epi	Degeneration	Mild
Preputial Gland		Cyst	Moderate
Note: CYST	TGLs = 1-15		
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Prepuce	Ulcer	Marked
Spleen		Hematopoietic Cell Proliferation	Moderate
Trachea	Mucosa	Erosion	Moderate
Urinary Bladder		Ectasia	Moderate
Note: ECTASIA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4875

TRT#: 1

SEX: Male

DAY ON TEST: 549

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Brain		Mineralization	Mild
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Moderate
	Renal Tubule	Regeneration	Mild
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC	TGLs = 3-11		
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Iliac	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Marked
Note: HYPERPLASIA	TGLs = 4-1		
Note: HYPERPLASIA	TGLs = 5-15.5		
Note: CONGESTION	TGLs = 4-1		
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 2-15		
Prostate		Inflammation	Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4875

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 549
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Head	Inflammation	Chronic, Mild
Note: ULCER TGLs = 1-15	Scrotal	Ulcer	Marked
Spleen		Hematopoietic Cell Proliferation	Moderate
Urethra		Calculus Micro Observation Only	
Note: CALCUS MIC OBS TGLs = 2-15			
Urinary Bladder		Inflammation	Acute, Marked
Note: CONTRIBUTORY TO DEATH			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4876

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Prostate
Skin	Stomach - Forestomach	Testes	Thymus
Trachea			

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Gallbladder		Inflammation	Chronic, Moderate
Heart		Inflammation	Chronic, Mild
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
Liver		Regeneration	Mild
		Bile Stasis	Mild
		Hematopoietic Cell Proliferation	Mild
		Necrosis	Marked
		Alveolar/Bronchiolar Adenoma	
		Congestion	Mild
		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Inflammation	Acute, Moderate
Nose	Olfactory Epi	Degeneration	Mild

Note: NECROSIS TGLs = 1-15

Note: IMPOSSIBLE TO I.D. NECROTIC LIVER AS CA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4876

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Lumen	Hemorrhage	Mild
Pituitary Gland	Pars Distalis	Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Hyperplasia	Mild
Spleen		Infiltration Cellular	Lymphocyte, Mild
		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Infiltration Cellular	Lymphocyte, Mild
		Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild

Note: ECTASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4877

TRT#: 1

SEX: Male

DAY ON TEST: 608

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Moderate
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
Note: PROBABLE CAUSE OF DEATH			
Note: HEPATOCLR CARC TGLs = 1-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitium	Inflammation	Acute, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-15			
Prostate		Inflammation	Acute, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 3-6			
Urinary Bladder		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4877

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 608
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4878

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Parathyroid Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Hemorrhage Mineralization	Mild Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Intestine Small	Jejunum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-15.1			
Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Mild
	Renal Tubule	Lymphoma Malignant Mixed Regeneration	Minimal
Note: CYST TGLs = 4-15			
Liver		Focal Cellular Change Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitial	Inflammation	Acute, Minimal
Lymph Node	Mandibular	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4878	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Lumen	Hemorrhage	Mild
Pituitary Gland	Pars Distalis	Lymphoma Malignant Mixed	Mild
Prostate		Hyperplasia	
Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Lymphoma Malignant Mixed	
		Hematopoietic Cell Proliferation	
		Lymphoma Malignant Mixed	Mild
Note: LYMPH MAL MIXD	TGLs = 1-12,2-12		
Testes		Atrophy	Marked
		Infiltration Cellular	Lymphocyte, Mild
Note: ATROPHY	TGLs = 3-5.1		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4879

TRT#: 1

SEX: Male

DAY ON TEST: 633

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Kidney	Pelvis	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Note: DILATATION TGLs = 7-12			
Liver		Hepatocellular Adenoma	
Note: PROBABLE CAUSE OF DEATH			
Note: [HEPATOCLR ADEN] TGLs = 5-15			
Lung		Hemorrhage	Minimal
Lymph Node		Congestion	Moderate
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 6-15.1			
Note: CONGESTION TGLs = 8-1			
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 4-12			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4879

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 633
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4880

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Stomach - Forestomach

Testes

Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Adenoma

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Myeloid Cell

Hyperplasia

Mild

Epididymis

Infiltration Cellular

Lymphocyte, Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Inflammation

Chronic, Mild

Kidney

Renal Tubule

Casts Protein

Minimal

Pelvis

Dilatation

Moderate

Renal Tubule

Dilatation

Minimal

Renal Tubule

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Necrosis

Minimal

Liver

Regeneration

Mild

Hepatocellular Adenoma

Necrosis

Mild

Note: NECROSIS TGLs = 5-15

Note: HEPATOCLR ADEN TGLs = 2-15

Lung

Congestion

Mild

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mesenteric

Congestion

Mild

Mandibular

Hyperplasia

Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4880

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate	Mesenteric	Hyperplasia	Lymphoid, Mild
Seminal Vesicle		Infiltration Cellular	Lymphocyte, Mild
Note: INFLAMMATION TGLs = 3-15.3		Inflammation	Chronic, Marked
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa	Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA TGLs = 4-15.2		Hyperplasia	Mild
Thymus		Cyst	
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Angiectasis	Moderate
		Ectasia	Moderate
Note: ECTASIA TGLs = 1-5		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4881

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
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
Mammary Gland	Pituitary Gland	Prostate	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: REGIONAL L.N. -- NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
Pancreas	Acinus	Atrophy	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4881

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:08
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4882 TRT#: 1 SEX: Male DAY ON TEST: 701
 DOSE: 0 PPM DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Heart		Infiltration Cellular	Lymphocyte, Minimal
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Kidney	Renal Tubule	Lymphoma Malignant Mixed	
		Regeneration	Minimal
Note: LYMPH MAL MIXD	TGLs = 5-12		
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 4-11.1+11		
Lung		Alveolar/Bronchiolar Adenoma	
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 2-4+15		
Note: ALV BRON ADEN	TGLs = 2-15		
Lymph Node	Axillary	Lymphoma Malignant Mixed	
	Iliac	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: CAUSE OF DEATH			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4882

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Dead

DAY ON TEST: 701

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MAL LYMPH IN PREFEMORAL L.N.

Note: LYMPH MAL MIXD TGLs = 6-1+3.1+15.1-5

Note: MAL LYMPH IN SUB.Q. L.N. SLIDE 7

Mesentery

Lymphoma Malignant Mixed

Note: SLIDE 6

Nose

Olfactory Epi

Degeneration

Mild

Lumen

Hemorrhage

Mild

Prostate

Infiltration Cellular

Lymphocyte, Mild

Spleen

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 3-12

Urinary Bladder

Lymphoma Malignant Mixed

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4883

TRT#: 1

SEX: Male

DAY ON TEST: 429

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Pancreas	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Ureter	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Intestine Large	Rectum	Ulcer	Marked
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Moderate
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Prostate		Inflammation	Acute, Marked
Skin	Tail	Necrosis	Marked
	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Note: NECROSIS	TGLs = 2-15		
Spleen		Hematopoietic Cell Proliferation	Marked
Note: [HEMA CELL PROL]	TGLs = 3-12		
Urinary Bladder		Ectasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: ECTASIA	TGLs = 5-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4883

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 429
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4884

TRT#: 1

SEX: Male

DAY ON TEST: 576

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Nose
Pancreas	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Moderate
	Renal Tubule	Mineralization	Mild
Note: CONTRIBUTORY TO DEATH			
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mesenteric	Hemorrhage	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
Prostate		Inflammation	Acute, Mild
Skin	Ventral	Alopecia	Mild
Note: ALOPECIA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4885 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 731
DOSE: 0 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pituitary Gland
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Gallbladder		Inflammation	Acute, Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Lung		Alveolar/Bronchiolar Adenoma	
		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD			
			TGLs = 1-1
Nose	Lumen	Hemorrhage	Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Stomach	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Moderate
	Forestomach	Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4885

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ULCER TGLs = 2-6
Note: INFLAMMATION TGLs = 2-6+15
Note: HYPERKERATOSIS TGLs = 2-6+15

Testes
Urinary Bladder

Atrophy
Infiltration Cellular

Moderate
Lymphocyte, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4886

TRT#: 1

SEX: Male

DAY ON TEST: 534

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Ureter			

MISSING

Blood Vessel	Gallbladder	Mammary Gland	Parathyroid Gland
Thymus			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Intestine Large	Rectum	Ulcer	Marked
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
Note: [HEPATOCLR ADEN] TGLs = 3-15.2			
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitialium	Inflammation	Acute, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC LYMPH NODE NORMAL			
Nose	Lumen	Hemorrhage	Minimal
Penis		Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 1-15.1			
Preputial Gland		Abscess	Marked
Note: ABSCESS TGLs = 2-15.1			
Prostate		Inflammation	Acute, Marked
Note: CONTRIBUTORY TO DEATH			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4886

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 534
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Inflammation

Acute, Moderate

Note: INFLAMMATION TGLs = 4-5

Note: CONTRIBUTORY TO DEATH

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4887

TRT#: 1

SEX: Male

DAY ON TEST: 549

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Ureter	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver	Periportal	Hepatocellular Carcinoma	
		Inflammation	Chronic, Mild
Note: CAUSE OF DEATH			
Note: HEPATOCLR CARC TGLs = 3-15.2+11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Mild
Note: REGIONAL ON BLOCK 15.3			
Note: REGIONAL L. N. HYPERPLASTIC			
Nose	Olfactory Epi	Degeneration	Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-15.1			
Skin	Prepuce	Abscess	Marked
	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4887

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 549
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ABSCESS TGLs = 2-15.1
Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4888

TRT#: 1

SEX: Male

DAY ON TEST: 543

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea		

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Cortex	Cyst	
	Pelvis	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Note: DILATATION TGLs = 3-12			
Note: CYST TGLs = 2-15.1			
Liver		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Mild
	Periportal	Inflammation	Chronic, Mild
Note: HEMANGIOSARC TGLs = 4-15.2			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node		Histiocytic Sarcoma	
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: [HISTIO SARC] TGLs = 5-15.4			
Note: REGIONAL L.N. FOR HEMANGIOSARCOMA BLOCK 15.3			
Note: SEARCH OF WET TISSUE FOR MANDIBULAR L. N.			
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4888

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 543
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands Note: HEMORRHAGE TGLs = 1-15	Hemorrhage	Marked
Spleen	Hematopoietic Cell Proliferation Hyperplasia	Mild Lymphoid, Mild
Thymus	Histiocytic Sarcoma	
Urinary Bladder	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MAL. LYMPH CONTRIBUTORY TO DEATH

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4889

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mandibular	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi Nasolacrim Dct	Degeneration Hemorrhage	Mild Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa Glandular	Dilatation Infiltration Cellular	Mild Lymphocyte, Mild
Testes	Interstit Cell	Hyperplasia	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4890

TRT#: 1

SEX: Male

DAY ON TEST: 470

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Pelvis	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION TGLs = 3-12			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-15.1			
Skin	Inguinal	Abscess	Marked
Note: ABSCESS TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes		Granuloma Sperm	Mild
Urinary Bladder		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
Note: ECTASIA TGLs = 4-5			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4891

TRT#: 1

SEX: Male

DAY ON TEST: 633

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic, Mild
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Moderate
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitium	Inflammation	Chronic, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Note: INFLAMMATION	TGLs = 5-1		
Note: HYPERPLASIA	TGLs = 6-15.3		
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4891

TRT#: 1

SEX: Male

DAY ON TEST: 633

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION	TGLs = 2-15.1		
Prostate		Inflammation	Chronic, Moderate
Skin		Abscess	Moderate
	Head, Subcut Tiss	Alopecia	Moderate
	Thoracic	Ulcer	Marked
	Prepuce		
Note: ULCER	TGLs = 3-15.1+15.2		
Note: ALOPECIA	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 4-12		
Urinary Bladder		Inflammation	Acute, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4892

TRT#: 1

SEX: Male

DAY ON TEST: 442

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Cyst	Mild
		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-15.1			
Note: MESENTERIC NORMAL			
Prostate		Inflammation	Acute, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Abscess	Marked
	Head	Inflammation	Acute, Mild
Note: INFLAMMATION BLOCK 14A			
Note: ABSCESS TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 5-5.1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4892	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Dead	DAY ON TEST: 442 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder	Calculus Micro Observation Only	
	Ectasia	Moderate
	Inflammation	Acute, Mild

Note: ECTASIA TGLs = 3-5

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4893

TRT#: 1

SEX: Male

DAY ON TEST: 640

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Heart		Inflammation	Chronic, Mild
Kidney		Inflammation	Chronic, Moderate
Liver		Hepatocellular Carcinoma	
Note: CAUSE OF DEATH			
Note: HEPATOCLR CARC TGLs = 2-15.1			
Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Peribronchiolr	Inflammation	Chronic, Mild
Note: ALV BRON ADEN TGLs = 3-15.3,4			
Note: RECUT REQUESTED			
Lymph Node	Mesenteric	Congestion	Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: WET TISSUE SEARCH FOR MANDIBULAR L.N.			
Note: MEDIASTINAL BLOCK 15.5			
Nose	Olfactory Epi	Degeneration	Mild
Preputial Gland		Cyst	Marked
		Inflammation	Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4893

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 640
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION	TGLs = 1-15			
Note: CYST	TGLs = 1-15			
Prostate			Inflammation	Acute, Moderate
Salivary Glands			Infiltration Cellular	Lymphocyte, Mild
Skin		Prepuce	Ulcer	Marked
Note: ULCER	TGLs = 1-15			
Spleen			Hematopoietic Cell Proliferation	Mild
Stomach		Glandular	Erosion	Mild
Note: EROSION	TGLs = 4-6			
Urinary Bladder			Inflammation	Chronic, Mild
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4894

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hemangiosarcoma	Metastatic (Liver)
Brain		Hyperplasia	Mild
Heart		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
Liver		Regeneration	Minimal
		Hemangiosarcoma	
Note: HEMANGIOSARC	TGLs = 2-15.2+11+15.1		
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hemangiosarcoma	Metastatic (Liver)
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HEMANGIOSARC	TGLs = 3-1		
Note: HYPERPLASIA, LYMPHOID--REGIONAL L.N.			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4894

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 1-12

Testes

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4895

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Epididymis	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pituitary Gland	Prostate	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Bone	Femur	Hyperostosis	
	Femur	Hyperostosis	
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
		Mineralization	Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	
		Inflammation	Chronic, Mild
[Hepatocellular Carcinoma TGLS = 2-15]			
Lung		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4895	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: REGIONAL L.N. NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Mild
Testes		Atrophy	Moderate
[Atrophy TGLS = 1-5.1]			
Thyroid Gland	Follicle	Adenoma	
Urinary Bladder		Angiectasis	Mild
		Infiltration Cellular	Lymphocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4896

TRT#: 1

SEX: Male

DAY ON TEST: 436

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Pancreas	Pituitary Gland	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland	Preputial Gland	
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Pelvis	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
	Pelvis	Inflammation	Acute, Mild
	Renal Tubule	Regeneration	Mild
Note: DILATATION TGLs = 3-12			
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 2-15.1			
Note: CAUSE OF DEATH CARCINOMA			
Lung		Congestion	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Moderate
Note: SUB Q			
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
Prostate		Inflammation	Chronic, Moderate
Skin	Prepuce	Abscess	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4896	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 436 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ULCER Note: ABSCESS Note: PREPUTIAL ABSCESS	TGLs = 1-15 TGLs = 4-15.3	Ulcer	Marked
Spleen Stomach Urinary Bladder	Glandular	Hematopoietic Cell Proliferation Infiltration Cellular Inflammation	Moderate Lymphocyte, Mild Acute, Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4897

TRT#: 1

SEX: Male

DAY ON TEST: 372

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Kidney		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: CONGESTION TGLs = 4-12			
Lung		Congestion	Mild
		Hemorrhage	Mild
Note: CONGESTION TGLs = 2-4			
Note: HEMORRHAGE TGLs = 2-4			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Skin		Alopecia	Mild
	Subcut Tiss	Inflammation	Chronic, Mild
Note: INFLAMMATION BLOCK 5A			
Note: ALOPECIA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Ectopic Parathyroid Gland	
Urinary Bladder		Ectasia	Moderate
Note: ECTASIA TGLs = 3-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4897

TRT#: 1

SEX: Male

DAY ON TEST: 372

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4898

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Pancreas	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Intestine Small	Jejunum	Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA TGLs = 1-6+15			
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Mandibular	Inflammation	Acute, Mild
	Mesenteric	Inflammation	Acute, Mild
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Moderate
Salivary Glands		Hyperplasia	Glandular, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
Thyroid Gland	Follicle	Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4898

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION	TGLs = 2-2		
Tooth	Pulp	Inflammation	Acute, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4899 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 733
DOSE: 0 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland
Skin	Testes	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Mineralization	Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Nose	Olfactory Epi	Degeneration	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 1-15			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4899

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4900

TRT#: 1

SEX: Male

DAY ON TEST: 613

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Hemorrhage	Mild
		Mineralization	Mild
Kidney	Renal Tubule	Cyst	Mild
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Mild
Note: SUBCUTIS BLOCK 7			
Nose	Lumen	Hemorrhage	Mild
Preputial Gland		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 1-15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head, Subcut Tiss	Inflammation	Acute, Mild
	Prepuce	Ulcer	Marked
Note: INFLAMMATION BLOCK 14B			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4900

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 613
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ULCER TGLs = 1-15
Spleen
Stomach
Urinary Bladder

Glandular

Hematopoietic Cell Proliferation
Infiltration Cellular
Ectasia
Infiltration Cellular

Mild
Lymphocyte, Mild
Mild
Lymphocyte, Mild

Note: ECTASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4901

TRT#: 1

SEX: Male

DAY ON TEST: 520

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Mild
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mesenteric	Congestion Hyperplasia	Mild Lymphoid, Mild
Note: WET TISSUE SEARCH FOR MANDIBULAR L.N.			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Minimal Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Preputial Gland		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 1-15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Prepuce	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4901

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 520
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Infiltration Cellular

Lymphocyte, Mild

Note: ECTASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4902

TRT#: 1

SEX: Male

DAY ON TEST: 618

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Lymphocyte, Mild
Note: ALV BRON ADEN	TGLs = 4-4		
Note: ALV BRON CARC	TGLs = 4-4		
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Inguinal	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA	TGLs = 5-15.2		
Note: HYPERPLASIA	TGLs = 6-15.3		
Note: HYPERPLASIA	TGLs = 7-15.4		
Note: HYPERPLASIA	TGLs = 8-2.1,15.5		
Note: HYPERPLASIA	TGLs = 9-1		
Preputial Gland		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4902

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 618
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST	TGLs = 1-15		
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Atrophy	Mild
Thymus			
Note: WET TISSUE SEARCH			
Ureter		Dilatation	Minimal
Note: DILATATION	TGLs = 2-15.1		
Urinary Bladder		Ectasia	Minimal
Note: ECTASIA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

Animal Note: MODERATE TO SEVERE AUTOLYSIS ALL TISSUES

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4903

TRT#: 1

SEX: Male

DAY ON TEST: 604

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Pancreas	Pituitary Gland	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Moderate
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Iliac	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 3-15.2			
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-15+15.1			
Prostate		Inflammation	Acute, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Subcut Tiss	Inflammation	Acute, Moderate
	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4903

TRT#: 1

SEX: Male

DAY ON TEST: 604

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urethra		Calculus Micro Observation Only	
Urinary Bladder		Inflammation	Chronic Active, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4904

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 491
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Pelvis	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION TGLs = 2-12			
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	
Note: CAUSE OF DEATH			
Note: [HEPATOCLR ADEN] TGLs = 1-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 4-15.2			
Preputial Gland		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 5-15.3			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Acute, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4904

TRT#: 1

SEX: Male

DAY ON TEST: 491

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach
Urinary Bladder

Glandular

Infiltration Cellular
Ectasia
Infiltration Cellular

Lymphocyte, Mild
Moderate
Lymphocyte, Mild

Note: ECTASIA TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4905

TRT#: 1

SEX: Male

DAY ON TEST: 526

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Pancreas	Parathyroid Gland	Pituitary Gland	Seminal Vesicle
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Mild
	Renal Tubule	Regeneration	Mild
Note: INFLAMMATION TGLs = 4-12			
Note: DILATATION TGLs = 4-12			
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
		Inflammation	Acute, Mild
Note: HEPATOCLR CARC TGLs = 5-15.2			
Note: CAUSE OF DEATH			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Lymphocyte, Mild
	Peribronchiolr	Inflammation	Acute, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 3-1			
Note: CONGESTION TGLs = 3-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4905

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 526
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Olfactory Epi	Degeneration	Minimal
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 1-15			
Prostate		Inflammation	Acute, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Chronic, Moderate
	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 2-15.1			
Note: PERIANAL - INFLAMMATION			
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Forestomach	Inflammation	Acute, Minimal
Ureter		Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 6-15.4			
Urethra		Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 7-5			
Urinary Bladder		Ectasia	Moderate
		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 9-5,10-5			
Note: ECTASIA TGLs = 9-5,10-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4906

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Stomach - Forestomach	Testes	Trachea	

MISSING

Mammary Gland	Parathyroid Gland	Thymus	
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Inflammation	Chronic, Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 1-15		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Ulcer	Marked
Note: ULCER	TGLs = 2-15.1		
Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4906

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Hyperplasia	Minimal
		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild

Note: ECTASIA TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4907

TRT#: 1

SEX: Male

DAY ON TEST: 443

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Cortex	Cyst	
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
Note: CYST		Regeneration	Mild
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Moderate
Note: BLOCK 15.1			
Preputial Gland		Abscess	Marked
Note: ABSCESS			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Ulcer	Marked
Note: ULCER			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4907

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 443
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Tooth	Pulp	Inflammation	Acute, Mild

Note: SLIDE 14A

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4908

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pituitary Gland	Prostate	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Minimal
Bone Marrow		Lymphoma Malignant Mixed	
Brain		Mineralization	Moderate
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Kidney	Renal Tubule	Lymphoma Malignant Mixed	
		Regeneration	Minimal
Note: LYMPH MAL MIXD TGLs = 2-15.1+12			
Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
Note: HEPATOCLR ADEN TGLs = 1-15			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Iliac	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-15.3			
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4908	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS		
Seminal Vesicle	Lymphoma Malignant Mixed	
Spleen	Hematopoietic Cell Proliferation	Mild
	Lymphoma Malignant Mixed	
Testes	Lymphoma Malignant Mixed	
Thymus	Lymphoma Malignant Mixed	
Urinary Bladder	Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4909

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 639
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Pancreas
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Cyst	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Necrosis	Mild
Note: CAUSE OF DEATH			
Note: HEPATOCLR ADEN	TGLs = 4-15.1		
Note: HEPATOCLR CARC	TGLs = 4-15.1		
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Note: ALV BRON ADEN	TGLs = 5-15.3+4		
Lymph Node	Mesenteric	Congestion	Moderate
	Iliac	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4909

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 639
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: REGIONAL L.N. NORMAL BLOCK 15.2

Note: HYPERPLASIA TGLs = 6-15.4

Nose	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Preputial Gland		Abscess	Marked
Note: ABSCESS	TGLs = 1-15		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Prepuce	Ulcer	Marked
Note: ULCER	TGLs = 2-15		
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: ECTASIA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4910

TRT#: 1

SEX: Male

DAY ON TEST: 331

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Mammary Gland	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Intestine Large - Rectum	Nose	Parathyroid Gland	
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Granuloma Sperm	Marked
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Pelvis	Dilatation	Moderate
	Pelvis	Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Moderate
[Dilatation TGLS = 4-12]			
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL.			
Preputial Gland		Abscess	Marked
[Abscess TGLS = 2-15.2]			
Skin	Scrotal	Abscess	Marked
[Abscess TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Granuloma Sperm	Moderate
Note: GRANLOMA SPERM TGLs = 6-5.1			
Ureter		Dilatation	Mild
[Dilatation TGLS = 3-15.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4910

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 331
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Ectasia
Inflammation

Moderate
Chronic Active, Mild

Note: ECTASIA TGLs = 5-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4911

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Infiltration Cellular Mineralization	Lymphocyte, Mild Moderate
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
	Renal Tubule	Regeneration Inflammation	Mild Chronic, Mild
Liver			
Note: INFLAMMATION TGLs = 2-11			
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mesenteric Mandibular Mesenteric	Congestion Hyperplasia Hyperplasia	Moderate Lymphoid, Mild Lymphoid, Mild
Note: REGIONAL L.N. ALSO HYPERPLASTIC			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4911

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen
Thyroid Gland
Urinary Bladder

Hyperplasia
Infiltration Cellular
Infiltration Cellular

Lymphoid, Mild
Lymphocyte, Minimal
Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4912

TRT#: 1

SEX: Male

DAY ON TEST: 291

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Esophagus	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Pelvis	Dilatation	Mild
Note: DILATATION TGLs = 4-12			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Lumen	Hemorrhage	Mild
Skin	Scrotal	Abscess	Marked
		Ulcer	Marked
Note: ABSCESS TGLs = 1-15			
Note: ULCER, PERIANAL BLOCK 6A			
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 2-12			
Urethra		Calculus Micro Observation Only	
Note: CALCUS MIC OBS TGLs = 3-15			
Urinary Bladder		Ectasia	Mild
Note: ECTASIA TGLs = 5-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4913

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	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	Pancreas	Pituitary Gland
Prostate	Skin	Thymus	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild	
	Medulla	Hyperplasia	Mild	
	Cortex	Hypertrophy	Mild	
	Cortex	Pigmentation	Moderate	
Bone Marrow	Myeloid Cell	Hyperplasia	Mild	
	Kidney	Renal Tubule	Casts Protein	Mild
Liver		Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild	
		Renal Tubule	Necrosis	Mild
		Renal Tubule	Regeneration	Mild
	Lung	Note: HEPATOCLR CARC TGLs = 1-11+15	Hematopoietic Cell Proliferation	Mild
Hepatocellular Carcinoma				
Lymph Node		Hemorrhage	Mild	
		Infiltration Cellular	Lymphocyte, Mild	
Mesentery	Mesenteric	Congestion	Mild	
	Mandibular	Hyperplasia	Lymphoid, Mild	
	Mesenteric	Hyperplasia	Lymphoid, Mild	
Nose	Artery	Inflammation	Chronic Active, Marked	
	Note: ADJACENT TO KIDNEY--SLIDE 12	Olfactory Epi	Degeneration	Minimal
Lumen		Hemorrhage	Mild	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4913

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Stomach	Glandular, Mucosa	Dilatation	Mild
	Forestomach	Inflammation	Chronic Active, Mild
	Glandular	Inflammation	Chronic Active, Mild
Note: INFLAMMATION	TGLs = 2-15.1		
Testes		Atrophy	Moderate
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4914

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
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	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Testes	Thymus	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Mild
Liver		Hepatocellular Carcinoma	
Note: CAUSE OF DEATH [Hepatocellular Carcinoma TGLS = 1-11+15.1]			
Lung		Alveolar/Bronchiolar Carcinoma	
Note: CAUSE OF DEATH [Alveolar/Bronchiolar Carcinoma TGLS = 2-4+15]			
Lymph Node	Mesenteric Mandibular Mediastinal	Congestion Hyperplasia Hyperplasia	Mild Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Nasolacrim Dct	Degeneration Inflammation	Mild Acute, Mild
Spleen		Pigmentation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thyroid Gland	Follicle	Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4914

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 713
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4915

TRT#: 1

SEX: Male

DAY ON TEST: 629

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Stomach - Forestomach	Testes	Thymus
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Mild
	Renal Tubule	Regeneration	Minimal
Note: DILATATION TGLs = 5-12			
Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Acute, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Iliac	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 6-15.3			
Nose	Olfactory Epi	Degeneration	Mild
Penis		Inflammation	Marked
Note: INFLAMMATION TGLs = 2-15,15.1			
Pituitary Gland	Pars Distalis	Cyst	
Prostate		Inflammation	Acute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4915

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 629
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands			Infiltration Cellular	Lymphocyte, Mild
Skin		Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15			
Spleen			Hematopoietic Cell Proliferation	Moderate
Stomach		Glandular	Infiltration Cellular	Lymphocyte, Mild
Thyroid Gland		Follicle	Cyst	Mild
Urinary Bladder			Ectasia	Mild
			Inflammation	Acute, Marked
Note: ECTASIA	TGLs = 4-5,5.1			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4916

TRT#: 1

SEX: Male

DAY ON TEST: 388

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Stomach - Forestomach
Testes	Thymus	Trachea	

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Kidney	Pelvis	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Chronic, Mild
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: WET TISSUE SEARCH FOR MANDIBULAR L.N.			
Nose	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
Note: SLIDE 15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Chronic, Mild
	Inguinal	Ulcer	Marked
	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-6.1		
Note: ULCER	TGLs = 2-15		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4916

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 388
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Calculus Gross Observation	
		Ectasia	Moderate
		Inflammation	Acute, Moderate

Note: CALCUS GRO OBS TGLs = 3-5

Note: ECTASIA TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4917

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 579
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Kidney		Inflammation	Acute, Moderate
Liver		Necrosis	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Interstitialium	Inflammation	Acute, Mild
	Mesenteric	Congestion	Mild
	Inguinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 3-15.1			
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 1-15			
Prostate		Inflammation	Chronic Active, Mild
Skin	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 2-15			
Spleen		Hematopoietic Cell Proliferation	Moderate
Urinary Bladder		Hemorrhage	Moderate
		Inflammation	Chronic Active, Mild
Note: HEMORRHAGE TGLs = 5-5			
Note: INFLAMMATION TGLs = 4-5			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4917

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 579
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4918

TRT#: 1

SEX: Male

DAY ON TEST: 563

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: WET TISSUE SEARCH FOR MESENTERIC L.N.			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Prostate		Inflammation	Acute, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin		Alopecia	Mild
	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Note: ALOPECIA TGLs = 4-15.1			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-12			
Thyroid Gland	Follicle	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4918

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 563
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Inflammation

Chronic Active, Marked

Note: INFLAMMATION TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4919

TRT#: 1

SEX: Male

DAY ON TEST: 590

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-15.1			
Note: MESENTERIC L.N. NORMAL			
Nose	Olfactory Epi Lumen	Degeneration	Mild
		Hemorrhage	Minimal
Penis		Inflammation	Acute, Moderate
[Inflammation TGLS = 1-15]			
Prostate		Inflammation	Acute, Mild
Skin	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Spleen		Angiectasis	Mild
		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4919

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 590
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland
Urinary Bladder
Note: INFLAMMATION TGLs = 3-5

Infiltration Cellular
Inflammation

Lymphocyte, Minimal
Chronic Active, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4920

TRT#: 1

SEX: Male

DAY ON TEST: 629

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Pelvis	Inflammation	Chronic Active, Mild
Liver		Hematopoietic Cell Proliferation	Mild
Lung	Interstitium	Inflammation	Acute, Minimal
Lymph Node	Mesenteric	Congestion	Mild
	Renal	Congestion	Mild
	Iliac	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Lymphoid, Mild

Note: CONGESTION TGLs = 6-15.4

Note: HYPERPLASIA TGLs = 6-15.4

Note: HYPERPLASIA TGLs = 4-15.2

Note: HYPERPLASIA TGLs = 5-15.3

Note: PREFEMORAL L.N. ALSO HYPERPLASTIC

Nose	Olfactory Epi	Degeneration	Minimal
Penis		Concretion	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4920

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 629
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CONCRETION Note: INFLAMMATION	TGLs = 2-15 TGLs = 2-15,15.1		Inflammation	Acute, Marked
Prostate			Inflammation	Acute, Moderate
Skin		Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15			
Spleen			Hematopoietic Cell Proliferation	Mild
Stomach		Glandular	Infiltration Cellular	Lymphocyte, Mild
Testes			Atrophy	Mild
Note: ATROPHY	TGLs = 7-5.1			
Urinary Bladder			Inflammation	Chronic Active, Moderate
Note: INFLAMMATION	TGLs = 3-5			
PRIMARY CAUSE OF DEATH	-			
Animal Note: CAUSE OF DEATH UNKNOWN				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4921

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Marked
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head	Inflammation	Acute, Mild
	Tail	Inflammation	Acute, Minimal
Note: INFLAMMATION TGLs = 1-15			
Spleen		Pigmentation	Minimal
Stomach	Glandular	Erosion	Mild

[Erosion TGLS = 2-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4921

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 713
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4922

TRT#: 1

SEX: Male

DAY ON TEST: 528

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Granuloma Sperm	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Kidney	Pelvis	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION	TGLs = 4-12		
Liver		Inflammation	Chronic, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
	Peribronchiolr	Inflammation	Chronic, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Lymphoid, Minimal
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA	TGLs = 6-15.3		
Nose	Olfactory Epi	Degeneration	Mild
	Mucosa	Inflammation	Acute, Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 1-15		
Prostate		Inflammation	Chronic Active, Marked
Skin	Head	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4922

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 528
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BLOCK 14A	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 5-15.2			
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 2-12			
Ureter		Dilatation	Mild
Note: DILATATION TGLs = 3-15.1			
Urinary Bladder		Inflammation	Acute, Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: CAUSE OF DEATH UNKNOWN			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4923

TRT#: 1

SEX: Male

DAY ON TEST: 291

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Pituitary Gland	Prostate	Stomach - Forestomach	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Rectum	Ulcer	Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Nose	Lumen	Hemorrhage	Mild
Preputial Gland		Inflammation	Chronic, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head	Inflammation	Chronic, Mild
	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Note: INFLAMMATION SLIDE 14A			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4923

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 291
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:08
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4924 TRT#: 1 SEX: Male DAY ON TEST: 712
 DOSE: 0 PPM DISP: Accident HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	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	Pancreas
Pituitary Gland	Prostate	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Blood Vessel	Aorta	Mineralization	Mild
Note: SLIDE 9.			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain			
Note: BONEY ARTIFACT.			
Epididymis		Granuloma Sperm	Marked
Kidney	Renal Tubule	Casts Protein	Mild
	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
Note: CAUSE OF DEATH.			
[Hepatocellular Carcinoma TGLS = 4-15]			
Lung		Congestion	Mild
		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Minimal
		Mineralization	Mild
Lymph Node		Congestion	Moderate
Note: CONGESTION IN REGIONAL LYMPH NODE			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4924

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Accident

DAY ON TEST: 712
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Head, Subcut Tiss	Abscess Alopecia	Moderate Mild
[Abscess TGLS = 2-14.1] [Alopecia TGLS = 1-7]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular Forestomach	Erosion Inflammation	Moderate Acute, Minimal
Testes		Atrophy	Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4985

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Testes
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Heart		Mineralization	Mild
Intestine Large	Anus	Ulcer	Marked
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Minimal
		Regeneration	Minimal
Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 3-15.2]		
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Note: LYMPH MAL ALSO IN REGIONAL L.N.		
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
	[Inflammation TGLS = 2-15.1]		
Prostate		Infiltration Cellular	Lymphocyte, Mild
Skin	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4985

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4986

TRT#: 2

SEX: Male

DAY ON TEST: 508

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Moderate
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitial	Inflammation	Acute, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: WET TISSUE SEARCH FOR MESENTERIC L.N.			
Prostate		Inflammation	Chronic Active, Moderate
Skin		Alopecia	Mild
	Inguinal	Inflammation	Acute, Mild
	Prepuce	Ulcer	Marked
Note: SLIDE 6A			
Note: ALOPECIA TGLs = 3-7			
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Marked
Tooth	Pulp	Inflammation	Acute, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4986

TRT#: 2

SEX: Male

DAY ON TEST: 508

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4987

TRT#: 2

SEX: Male

DAY ON TEST: 379

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Pituitary Gland	Prostate	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion	Mild
		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi Lumen	Degeneration	Minimal
		Hemorrhage	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skeletal Muscle	Head	Abscess	Moderate
		Abscess	Marked
Note: BLOCK 14A			
Note: CHECK TRIM RECORD SLIDE LABELED MASS A			
Note: BLOCK 15			
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4987

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 379
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4988

TRT#: 2

SEX: Male

DAY ON TEST: 689

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Anus	Inflammation	Acute, Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic, Mild
Note: CAUSE OF DEATH--CARCINOMA			
Note: HEPATOCLR CARC TGLs = 2-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: MANDIBULAR L.N. ON SLIDE 15.2			
Nose	Olfactory Epi	Degeneration	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Stomach	Forestomach	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 3-15.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4988

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 689
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes		Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:08

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4989

TRT#: 2

SEX: Male

DAY ON TEST: 229

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Lymph Node - Mandibular	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Trachea		Inflammation	Chronic Active, Mild

Note: INFLAMMATION TGLs = 1-2

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:08
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4990

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 374
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Abscess	Marked
		Inflammation	Chronic Active, Moderate
Note: ABSCESS TGLs = 7-12			
Note: INFLAMMATION TGLs = 7-12			
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 6-15.3			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Minimal
	Interstitialium	Inflammation	Acute, Minimal
Lymph Node			
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
	Vomeronas Org	Inflammation	Acute, Minimal
Pancreas		Fibrosis	Mild
Note: FIBROSIS TGLs = 5-6.1			
Preputial Gland		Abscess	Marked
Note: ABSCESS TGLs = 3-15.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4990

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 374
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Foot	Ulcer	Marked
	Tail	Ulcer	Marked
Note: ULCER TGLs = 2-15.1			
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Moderate
	Capsule	Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 4-12			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: CAUSE OF DEATH UNKNOWN			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4991

TRT#: 2

SEX: Male

DAY ON TEST: 674

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Pancreas
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 4-12			
Note: CAUSE OF DEATH			
Liver		Hepatocellular Carcinoma	
Note: CAUSE OF DEATH--CARCINOMA			
Note: HEPATOCLR CARC TGLs = 3-11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Marked
	Mandibular	Hyperplasia	Lymphoid, Minimal
Nose	Olfactory Epi	Degeneration	Mild
	Nasolacrim Dct	Inflammation	Acute, Minimal
Penis		Necrosis	Marked
Note: SLIDE 15			
Prostate		Inflammation	Acute, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Prepuce	Ulcer	Marked
Note: ULCER TGLs = 1-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4991

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 674
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen
Urinary Bladder
Note: INFLAMMATION TGLs = 5-5

Hematopoietic Cell Proliferation
Inflammation

Mild
Acute, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4992

TRT#: 2

SEX: Male

DAY ON TEST: 619

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION TGLs = 3-12			
Liver		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Minimal
Penis		Necrosis	Marked
Prostate		Inflammation	Acute, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 4-15			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-12			
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4992

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 619
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Acute, Mild

Note: ECTASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4993

TRT#: 2

SEX: Male

DAY ON TEST: 485

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Parathyroid Gland	Pituitary Gland	Prostate	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Inflammation	Acute, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Note: HYPERPLASIA TGLs = 3-15.1			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Preputial Gland		Inflammation	Chronic, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4993

TRT#: 2

SEX: Male

DAY ON TEST: 485

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Infiltration Cellular

Lymphocyte, Mild

Note: ECTASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4994

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 563
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Pituitary Gland	Prostate	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Inflammation	Chronic, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Inflammation	Acute, Mild
Note: INFLAMMATION	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4994

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 563
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:09
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4995

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 577
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Mild
	Renal Tubule	Regeneration	Mild
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN	TGLs = 3-15.1		
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Minimal
Note: HYPERPLASIA	TGLs = 4-15		
Note: HEPATIC			
Note: HYPERPLASIA	TGLs = 6-15.3		
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4995

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 577
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Lumen	Hemorrhage	Mild
Penis		Infiltration Cellular	Lymphocyte, Minimal
Note: INFLAMMATION	TGLs = 1-15	Inflammation	Acute, Marked
Prostate		Inflammation	Chronic Active, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 2-15		
Spleen		Hematopoietic Cell Proliferation	Moderate
Urinary Bladder		Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 5-5		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4996

TRT#: 2

SEX: Male

DAY ON TEST: 278

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Nose
Pancreas	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Intestine Large	Rectum	Ulcer	Marked
Kidney		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Mild
		[Hyperplasia TGLS = 4-15]	
Prostate		Inflammation	Acute, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Scrotal	Ulcer	Marked
		[Ulcer TGLS = 1-15]	
Spleen		Hematopoietic Cell Proliferation	Moderate
		Note: HEMA CELL PROL TGLs = 3-12	
Testes	Tunic	Inflammation	Chronic Active, Moderate
		Note: INFLAMMATION TGLs = 5-5	
Urinary Bladder		Ectasia	Mild
		[Ectasia TGLS = 2-5]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4996

TRT#: 2

SEX: Male

DAY ON TEST: 278

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4997 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 730
DOSE: 600 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mandibular	Nose	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Testes	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Intestine Large	Colon	Lymphoma Malignant Mixed	
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
Lymph Node	Renal Tubule	Regeneration	Minimal
	Mesenteric	Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 1-1]		
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Angiectasis	Mild
		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4997

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4998

TRT#: 2

SEX: Male

DAY ON TEST: 639

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

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

Blood Vessel
Gallbladder
Intestine Small - Duodenum
Parathyroid Gland
Testes

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Pituitary Gland
Thyroid Gland

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland
Bone Marrow
Brain
Harderian Gland
Heart
Kidney
Liver

Capsule, Spindle Cell
Myeloid Cell

Hyperplasia
Hyperplasia
Mineralization

Mild
Mild
Mild

Note: HARDERIAN GL. ADENOCARC. CAUSING COMPRESSION

Adenocarcinoma

Note: ADENOCARC TGLs = 5-15.3

Infiltration Cellular
Lymphoma Malignant Mixed
Hemangioma
Lymphoma Malignant Mixed

Lymphocyte, Mild

[Lymphoma Malignant Mixed TGLS = 2-15]

Lung

Adenocarcinoma
Hemorrhage
Infiltration Cellular
Infiltration Cellular

Metastatic (Harderian Gland)
Mild
Histiocyte, Mild
Lymphocyte, Mild

Alveolus

Note: ADENOCARC TGLs = 3-4+15.4

Lymph Node

Mandibular
Mediastinal
Mesenteric

Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 4-15.2

Note: MAL. LYMPH. ALSO IN SLIDE 15.1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4998

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 639
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Adenocarcinoma	Metastatic (Harderian Gland)
	Nasolacrim Dct	Inflammation	Acute, Mild
Note: INFILTRATION INTO LUMEN			
Pancreas		Lymphoma Malignant Mixed	
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant Mixed	
Note: MAL. LYMPHOMA IS CAUSE OF DEATH			
Note: LYMPH MAL MIXD TGLs = 1-12			
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Lymphoma Malignant Mixed	
Note: SLIDE 2A			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4999

TRT#: 2

SEX: Male

DAY ON TEST: 425

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
Note: [HEPATOCLR CARC] TGLs = 3-15.2			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Mild
	Vomeronas Org	Inflammation	Acute, Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 1-15			
Skin	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 2-15.1			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4999

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 425
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5000

TRT#: 2

SEX: Male

DAY ON TEST: 277

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Inflammation	Acute, Marked
Intestine Large	Rectum	Inflammation	Acute, Marked
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
	Lumbar	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 1-15			
Note: HYPERPLASIA TGLs = 6-15			
Note: MESENTERIC NORMAL			
Skeletal Muscle	Head	Abscess	Mild
Note: SLIDE 14A			
Skin	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 2-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 5-5+15.1			
Urethra		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 4-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5000

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 277
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Ectasia
Inflammation

Minimal
Acute, Mild

Note: ECTASIA TGLs = 3-5

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5001

TRT#: 2

SEX: Male

DAY ON TEST: 473

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION TGLs = 3-12			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 2-15.1]			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Inguinal	Ulcer	Marked
[Ulcer TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5002

TRT#: 2

SEX: Male

DAY ON TEST: 331

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Ileum
Pituitary Gland
Testes

Blood Vessel
Intestine Large - Cecum
Intestine Small - Jejunum
Salivary Glands
Thymus

Bone
Intestine Large - Colon
Islets, Pancreatic
Stomach - Forestomach
Thyroid Gland

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland
Bone Marrow
Brain
Epididymis
Gallbladder
Intestine Large
Kidney

Capsule, Spindle Cell
Myeloid Cell

Rectum
Pelvis

Hyperplasia
Hyperplasia
Mineralization
Inflammation
Infiltration Cellular
Inflammation
Dilatation
Infiltration Cellular

Mild
Mild
Mild
Chronic, Moderate
Lymphocyte, Minimal
Chronic, Moderate
Moderate
Lymphocyte, Mild

Note: DILATATION TGLs = 2-12
Liver

Hematopoietic Cell Proliferation
Infiltration Cellular
Infiltration Cellular

Mild
Lymphocyte, Minimal
Lymphocyte, Mild

Lung
Lymph Node

Inguinal
Mandibular
Mesenteric

Hyperplasia
Hyperplasia
Hyperplasia

Lymphoid, Marked
Lymphoid, Minimal
Lymphoid, Mild

Nose
Pancreas
Penis

Lumen
Acinus

Hemorrhage
Atrophy
Inflammation

Mild
Minimal
Acute, Marked

Preputial Gland
Note: ABSCESS TGLs = 4-15.1
Prostate

Abscess
Inflammation

Marked
Acute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5002

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 331
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Ulcer	Marked
Note: ULCER	TGLs = 5-15.1		
Spleen		Hematopoietic Cell Proliferation	Moderate
Ureter		Dilatation	Mild
Note: DILATATION	TGLs = 1-15		
Urinary Bladder		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: ECTASIA	TGLs = 3-5		
PRIMARY CAUSE OF DEATH	-		
Animal Note: CAUSE OF DEATH UNKNOWN			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5003

TRT#: 2

SEX: Male

DAY ON TEST: 405

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Casts Protein	Mild
	Renal Tubule	Dilatation	Mild
Lung		Congestion	Mild
		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node			
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Skin	Scrotal	Inflammation	Chronic Active, Moderate
	Tail	Inflammation	Chronic, Mild
	Prepuce	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Note: INFLAMMATION TGLs = 4-15			
Note: INFLAMMATION TGLs = 3-15.1			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5003

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 405
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach
Urinary Bladder
Note: ECTASIA TGLs = 2-5

Glandular

Infiltration Cellular
Ectasia

Lymphocyte, Mild
Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5004

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 452
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mandibular
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild

[Ectasia TGLS = 2-5]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5005 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 418
DOSE: 600 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Mandibular	Pigmentation	Mild
Note: HYPERPLASIA TGLs = 3-15.1			
Nose	Lumen	Hemorrhage	Mild
Skeletal Muscle	Head	Abscess	Moderate
Note: SLIDE 14A			
Skin	Scrotal	Ulcer	Marked
Note: RECUT REQUESTED			
Note: ULCER TGLs = 2-15			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Thyroid Gland	Follicle	Cyst	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5005

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 418
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5006

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Accident

DAY ON TEST: 500
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pituitary Gland
Skin	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Hemorrhage	Mild
		Mineralization	Mild
Note: HEMORRHAGE	TGLs = 2-10		
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: HEMORRHAGE	TGLs = 1-4		
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5006

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Accident

DAY ON TEST: 500
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5007

TRT#: 2

SEX: Male

DAY ON TEST: 576

DOSE: 600 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland	Prostate
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
		Metaplasia	Osseous, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Granuloma	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Iliac	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Lymphoid, Marked
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 1-15			
Note: HYPERPLASIA TGLs = 4-15.2			
Nose	Olfactory Epi	Degeneration	Mild
Prostate			
Note: WET TISSUE SEARCH			
Skin	Neck	Abscess	Marked
Note: ABSCESS TGLs = 2-15.1			
Spleen		Hematopoietic Cell Proliferation	Moderate
Urinary Bladder		Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5007	TRT#: 2 DOSE: 600 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 576 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA	TGLs = 3-5	Infiltration Cellular	Lymphocyte, Mild
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PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5008

TRT#: 2

SEX: Male

DAY ON TEST: 323

DOSE: 600 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Epididymis		Inflammation	Acute, Moderate
Intestine Large	Anus	Ulcer	Marked
Lung		Congestion	Mild
		Hemorrhage	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Lumen	Hemorrhage	Mild
Skin		Ulcer	Marked
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Stomach	Glandular	Erosion	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5009

TRT#: 2

SEX: Male

DAY ON TEST: 632

DOSE: 600 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Inflammation	Chronic Active, Moderate
Heart		Inflammation	Acute, Mild
Intestine Large	Anus	Inflammation	Chronic Active, Moderate
Kidney	Renal Tubule	Cyst	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Inflammation	Acute, Mild
	Renal Tubule	Necrosis	Mild
		Regeneration	Mild
Note: CYST	TGLs = 7-12		
Liver		Infarct	Marked
		Inflammation	Acute, Mild
		Necrosis	Mild
Note: INFARCT	TGLs = 5-15.1		
Lung		Infiltration Cellular	Lymphocyte, Minimal
		Inflammation	Acute, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5009

TRT#: 2

SEX: Male

DAY ON TEST: 632

DOSE: 600 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Penis	Respirat Epith Lumen	Degeneration Hemorrhage Inflammation Necrosis	Mild Mild Acute, Marked Marked
Note: INFLAMMATION	TGLs = 2-15		
Note: NECROSIS	TGLs = 1-15		
Prostate		Inflammation	Chronic Active, Moderate
Skeletal Muscle	Head	Abscess	Moderate
Skin	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 3-15		
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 4-12		
Stomach	Glandular	Erosion	Mild
Note: EROSION	TGLs = 9-15.1+9		
Tooth	Pulp	Inflammation	Acute, Moderate
Urinary Bladder		Ectasia Inflammation	Mild Acute, Marked
Note: ECTASIA	TGLs = 8-5		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5010

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hyperplasia	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Lymphoma Malignant Mixed Mineralization	Mild
Epididymis		Lymphoma Malignant Mixed	
Heart		Lymphoma Malignant Mixed	
Intestine Large	Colon	Lymphoma Malignant Mixed	
Kidney	Renal Tubule	Lymphoma Malignant Mixed Regeneration	Mild
Liver		Lymphoma Malignant Mixed	
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-1			
Nose	Olfactory Epi Respirat Epith Lumen Mucosa Mucosa	Degeneration Degeneration Hemorrhage Inflammation Lymphoma Malignant Mixed	Mild Mild Mild Acute, Mild
Pancreas		Lymphoma Malignant Mixed	
Preputial Gland		Lymphoma Malignant Mixed	

[Lymphoma Malignant Mixed TGLS = 1-15]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5010	TRT#: 2	SEX: Male	DAY ON TEST: 733
	DOSE: 600 PPM	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Lymphoma Malignant Mixed	
Salivary Glands		Lymphoma Malignant Mixed	
Skeletal Muscle	Head	Lymphoma Malignant Mixed	
Skin		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
[Hematopoietic Cell Proliferation TGLS = 2-12]			
Stomach	Forestomach	Lymphoma Malignant Mixed	
	Glandular	Lymphoma Malignant Mixed	
Testes		Lymphoma Malignant Mixed	
Thymus		Cyst	Mild
		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5011

TRT#: 2

SEX: Male

DAY ON TEST: 724

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
		Infiltration Cellular	Lymphocyte, Minimal
Note: CAUSE OF DEATH			
Note: HEPATOCLR CARC TGLs = 2-15.1			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Lymphocyte, Mild
Note: HEPATOCLR CARC TGLs = 3-4			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Turbinate	Congestion	Moderate
	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Preputial Gland		Cyst	
		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 1-15			
Note: CYST TGLs = 1-15			
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5011

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 724
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Hematopoietic Cell Proliferation
Pigmentation

Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:09
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5012

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 716
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Pituitary Gland
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule Renal Tubule	Infiltration Cellular Necrosis	Lymphocyte, Mild Minimal
Lung		Regeneration	Mild
Lymph Node	Mandibular Mediastinal Renal	Infiltration Cellular Hyperplasia Hyperplasia Hyperplasia	Lymphocyte, Mild Lymphoid, Mild Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen	Inflammation Degeneration	Acute, Mild Minimal
Penis		Hemorrhage Abscess	Mild Marked
[Abscess TGLS = 2-15]			
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Acute, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Head, Subcut Tiss	Abscess	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5012

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 716
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Prepuce	Alopecia Ulcer	Mild Marked
[Alopecia TGLS = 1-7]			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Minimal
Urinary Bladder		Ectasia	Moderate
Note: ECTASIA TGLs = 3-5			

PRIMARY CAUSE OF DEATH

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Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5013

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Pituitary Gland	Skin
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Pigmentation	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-15]		
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Congestion	Moderate
	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5013

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Hyperkeratosis	Mild
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
Note: HYPERKERATOSIS TGLs = 2-15			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5014

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Mineralization	Mild
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Minimal Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hyperplasia	Lymphoid, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5015

TRT#: 2

SEX: Male

DAY ON TEST: 551

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Mammary Gland	Pancreas	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Pelvis	Dilatation	Mild
	Pelvis	Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Mild
Note: DILATATION TGLs = 3-12			
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Note: CAUSE OF DEATH			
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Penis		Necrosis	Marked
Note: NECROSIS TGLs = 7-15.3			
Prostate		Inflammation	Acute, Moderate
Seminal Vesicle		Dilatation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5015

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 551
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION	TGLs = 6-15.2			
Skin		Prepuce	Ulcer	Marked
Spleen			Hematopoietic Cell Proliferation	Moderate
Stomach		Glandular	Erosion	Mild
Note: EROSION	TGLs = 8-15.4			
Ureter			Dilatation	Mild
Note: DILATATION	TGLs = 2-15.1			
Urinary Bladder			Ectasia Inflammation	Mild Acute, Marked
Note: ECTASIA	TGLs = 5-5			
Note: INFLAMMATION	TGLs = 4-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5016

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas	Pituitary Gland
Skin	Stomach - Forestomach	Thymus	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Islets, Pancreatic		Adenoma	
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
Liver		Regeneration	Mild
		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLs = 1-15]			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 2-1			
Note: REGIONAL L.N. NORMAL			
Nose	Lumen	Hemorrhage	Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Stomach	Glandular	Erosion	Mild
Note: EROSION TGLs = 3-6			
Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5016

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicle	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5017

TRT#: 2

SEX: Male

DAY ON TEST: 450

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Heart		Atrophy	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 1-15			
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Septum	Inflammation	Acute, Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Atrophy	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5018

TRT#: 2

SEX: Male

DAY ON TEST: 430

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Minimal
Skin	Head	Inflammation	Chronic, Mild
	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Note: SLIDE 14A			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: EROSION	TGLs = 2-6		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5018

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 430
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5019 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 443
DOSE: 600 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Inflammation	Acute, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-15			
Pituitary Gland			
Note: FOCAL COMPRESSION ARTIFACT			
Preputial Gland		Abscess	Marked
Note: ABSCESS TGLs = 3-15.1			
Prostate		Infiltration Cellular	Lymphocyte, Minimal
Skin	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5019	TRT#: 2	SEX: Male	DAY ON TEST: 443
	DOSE: 600 PPM	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5020

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Pituitary Gland
Prostate	Skin	Stomach - Forestomach	Testes
Thymus	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Minimal
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular, Submucosa	Edema	Moderate
	Glandular	Infiltration Cellular	Lymphocyte, Mild

[Edema TGLS = 1-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5020	TRT#: 2 DOSE: 600 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Thyroid Gland	Follicle	Hyperplasia	Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5021 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 319
DOSE: 600 PPM **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	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	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Intestine Large	Colon	Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 5-15+6.1			
Note: CAUSE OF DEATH			
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	
Note: ADENOMA IN TWO SITES			
[Hematopoietic Cell Proliferation TGLs = 6-11]			
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitium	Inflammation	Acute, Minimal
Lymph Node	Renal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Lymphoma Malignant Lymphocytic	
[Hyperplasia TGLs = 2-15.1]			
Nose	Olfactory Epi	Degeneration	Minimal
Pancreas		Lymphoma Malignant Lymphocytic	
Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5021

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 319
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5022

TRT#: 2

SEX: Male

DAY ON TEST: 430

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L. N. NORMAL			
Nose	Lumen	Hemorrhage	Minimal
Prostate		Inflammation	Acute, Marked
Spleen		Pigmentation	Mild
Thymus		Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5023

TRT#: 2

SEX: Male

DAY ON TEST: 563

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Prostate
Thymus

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

Blood Vessel
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Stomach - Forestomach
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Pituitary Gland
Testes

MISSING

Gallbladder

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Blood Vessel

Capsule, Spindle Cell

Hyperplasia

Mild

Note: DORSAL AORTA NORMAL

Bone Marrow
Brain

Myeloid Cell

Hyperplasia
Hemorrhage
Mineralization

Mild
Mild
Minimal

Intestine Large

Anorectal Jct
Anus

Erosion
Erosion

Mild
Mild

Kidney

Renal Tubule
Renal Tubule

Casts Protein
Dilatation
Infiltration Cellular

Mild
Mild
Lymphocyte, Mild

Renal Tubule
Renal Tubule

Necrosis
Regeneration
Hepatocellular Carcinoma
Infiltration Cellular
Necrosis

Minimal
Mild

Liver

Note: CAUSE OF DEATH

[Necrosis TGLS = 1-15]

Lung
Lymph Node
Mesentery

Mesenteric
Artery

Hemorrhage
Hyperplasia
Inflammation

Minimal
Lymphoid, Mild
Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5023	TRT#: 2 DOSE: 600 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 563 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: SLIDE 15.1			
Nose	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-15.2			
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skeletal Muscle	Head	Inflammation	Chronic Active, Mild
Note: SLIDE 14A			
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5024

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Prostate	Skin	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Compression Mineralization	Mild
Note: SECONDARY TO PITUITARY MASS			
Heart		Infiltration Cellular	Lymphocyte, Minimal
Intestine Small	Ileum	Amyloid Deposition	Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5024

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Mucosa Glandular	Dilatation Infiltration Cellular Infiltration Cellular	Minimal Lymphocyte, Mild Lymphocyte, Mild
Urinary Bladder			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5025

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart	Ventricl Rgt	Thrombosis	
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-15.1,2-15]		
Lung		Infiltration Cellular	Lymphocyte, Mild
	Arteriole	Inflammation	Acute, Marked
	Artery	Inflammation	Acute, Marked
	Note: INFLAM. PROB. SECONDARY TO THROMBUS-HEART		
Lymph Node	Mesenteric	Congestion	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Mandibular	Lymphoma Malignant Lymphocytic	
	Note: MEDIASTINAL--SLIDE 3		
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5025

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nasolacrim Dct

Inflammation
Infiltration Cellular
Hematopoietic Cell Proliferation
Pigmentation

Acute, Mild
Lymphocyte, Minimal
Moderate
Minimal

Pancreas
Spleen

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5026

TRT#: 2

SEX: Male

DAY ON TEST: 555

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Mild
Nose	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-15.1			
Skin	Prepuce	Ulcer	Marked
[Ulcer TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5027

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 390
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Liver	Parathyroid Gland
Pituitary Gland	Prostate	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Inflammation	Chronic, Moderate
Note: SCROTAL FAT			
Intestine Large	Anus	Erosion	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Minimal
Note: SUBCUTANEOUS L.N--MODERATE LYMPHOID HYPERPLASIA			
Nose	Olfactory Epi	Degeneration	Mild
Pancreas	Acinus	Hyperplasia	Mild
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15]			
Preputial Gland		Inflammation	Chronic Active, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Scrotal	Abscess	Marked
[Abscess TGLS = 2-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5027

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 390
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Ectasia	Mild
Note: ECTASIA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5028

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Skin	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Lymphoma Malignant Mixed	
	Renal Tubule	Regeneration	Mild
Lung		Hemorrhage	Mild
		Lymphoma Malignant Mixed	
Lymph Node	Iliac	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 2-1,3-15,4-15.2,5-15.1		
Mesentery		Lymphoma Malignant Mixed	
Nose	Lumen	Hemorrhage	Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	

[Hematopoietic Cell Proliferation TGLS = 1-12]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5028

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Mucosa Glandular	Dilatation Infiltration Cellular Lymphoma Malignant Mixed	Minimal Lymphocyte, Mild
Urinary Bladder			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5029

TRT#: 2

SEX: Male

DAY ON TEST: 448

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 2-15.1			
Note: CAUSE OF DEATH			
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Mild
Note: REGIONAL			
Nose	Olfactory Epi	Degeneration	Mild
Preputial Gland		Cyst	
		Infiltration Cellular	Lymphocyte, Mild
Note: CYST TGLs = 1-15			
Prostate		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5030

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Accident

DAY ON TEST: 554
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Minimal
Liver		Cyst Infiltration Cellular	Lymphocyte, Mild
Note: CYST	TGLs = 1-15		
Lung		Hemorrhage Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular Mesenteric	Congestion Hyperplasia Hyperplasia	Mild Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
Thymus		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5030

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Accident

DAY ON TEST: 554
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland
Urinary Bladder

Infiltration Cellular
Infiltration Cellular

Lymphocyte, Mild
Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5031	TRT#: 2 DOSE: 600 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pituitary Gland	Prostate	Skin	Stomach - Forestomach
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex Capsule, Spindle Cell Cortex	Adenoma Hyperplasia Pigmentation	Mild Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular Mesenteric	Congestion Hyperplasia Hyperplasia	Moderate Lymphoid, Mild Lymphoid, Mild
Nose	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia	Minimal Lymphoid, Moderate
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Hyperplasia	Lymphoid, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5031

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5032 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 730
DOSE: 600 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Testes	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Minimal
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Minimal
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5033

TRT#: 2

SEX: Male

DAY ON TEST: 639

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Cecum	Parasite Metazoan	
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 3-15.1			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Penis		Inflammation	Acute, Marked
Note: SLIDE 15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Prepuce	Ulcer	Marked
Note: ULCER TGLs = 1-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5033

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 639
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild

Note: ECTASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5034 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 733
DOSE: 600 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
Liver	Renal Tubule	Regeneration	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
Note: [HEPATOCLR ADEN] TGLs = 1-15			
Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5034

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Stomach	Glandular, Mucosa	Dilatation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5035 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 639
DOSE: 600 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Chronic, Mild
Note: SLIDE 6			
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5035

TRT#: 2

SEX: Male

DAY ON TEST: 639

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5036

TRT#: 2

SEX: Male

DAY ON TEST: 725

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Mild
	Renal Tubule	Regeneration	Moderate
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Acute, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
	Scrotal	Ulcer	Marked

Note: ALOPECIA TGLs = 2-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5036

TRT#: 2
DOSE: 600 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 725
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 1-15]

Spleen
Note: HEMA CELL PROL TGLs = 4-12
Urinary Bladder
Note: INFLAMMATION TGLs = 5-5

Hematopoietic Cell Proliferation

Inflammation

Moderate

Chronic Active, Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5037 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 563
DOSE: 600 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
		Necrosis	Mild
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: MEDIASTINAL L.N. IN SLIDE 2A			
Nose	Olfactory Epi	Degeneration	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Prostate		Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Seminal Vesicle		Dilatation	Moderate
[Dilatation TGLS = 1-15]			
Skin	Scrotal	Ulcer	Marked
[Ulcer TGLS = 3-15.1]			
Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5037

TRT#: 2

DOSE: 600 PPM

SEX: Male

DISP: Moribund

DAY ON TEST: 563

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 2-12]

Urinary Bladder

Ectasia

Infiltration Cellular

Mild

Lymphocyte, Minimal

Note: ECTASIA TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5038

TRT#: 2

SEX: Male

DAY ON TEST: 470

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Mammary Gland	Parathyroid Gland	Pituitary Gland
Prostate	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC L.N. NORMAL			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Minimal Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Inguinal	Ulcer	Marked
[Ulcer TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5039

TRT#: 2

SEX: Male

DAY ON TEST: 518

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	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	Nose	Pancreas	Pituitary Gland
Prostate	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

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

Lymph Node - Mandibular

OBSERVATIONS

Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MANDIBUL, MESENTERIC, AND ILIAC.			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Ulcer	Marked
[Ulcer TGLS = 1-15]			
Ureter		Dilatation	Minimal
Note: DILATATION TGLs = 2-15.1			

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT.

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5040

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pituitary Gland	Prostate	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Heart		Inflammation	Chronic Active, Mild
Kidney	Renal Tubule	Casts Protein	Marked
	Renal Tubule	Dilatation	Marked
		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Lymphocyte, Moderate
	Renal Tubule	Necrosis	Marked
	Renal Tubule	Regeneration	Moderate
Note: HEPATOCLR CARC TGLs = 3-12			
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 5-11+15.1			
Lung		Granuloma	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node		Congestion	Moderate
		Hepatocellular Carcinoma	Metastatic (Liver)
	Mandibular	Hyperplasia	Lymphoid, Mild
	Iliac	Inflammation	Acute, Moderate
	Mesenteric	Inflammation	Acute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5040

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEPATIC - CONGESTION & HYPERPLASIA

Note: HEPATOCLR CARC TGLs = 4-15.2

Note: INFLAMMATION TGLs = 7-15.2+8-1

Note: CONGESTION TGLs = 6-15.1

Nose	Lumen	Hemorrhage	Mild
	Nasolacrim Dct	Inflammation	Acute, Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Chronic, Mild
Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Moderate
Note: HEMANGIOSARC	TGLs = 2-12		
Note: HEMA CELL PROL	TGLs = 1-12		
Stomach	Forestomach	Inflammation	Chronic, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5041

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Pituitary Gland
Skin	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Gallbladder		Inflammation	Acute, Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Islets, Pancreatic		Necrosis	Mild
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Necrosis	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 1-1			
Nose	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Pancreas		Lymphoma Malignant Mixed	
Prostate		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5041	TRT#: 2 DOSE: 600 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Stomach	Forestomach	Hyperplasia	Squamous, Mild
	Forestomach	Inflammation	Chronic Active, Mild
	Forestomach	Ulcer	Moderate
Note: ULCER	TGLs = 2-15		
Note: HYPERPLASIA	TGLs = 2-15		
Note: INFLAMMATION	TGLs = 2-15		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5042

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Atrophy	Moderate
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5043

TRT#: 2

SEX: Male

DAY ON TEST: 569

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
	Nasolacrim Dct	Inflammation	Acute, Mild
Penis		Inflammation	Acute, Marked
	[Inflammation TGLS = 1-15]		
Spleen		Pigmentation	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5044

TRT#: 2

SEX: Male

DAY ON TEST: 306

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Parathyroid Gland	Pituitary Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 5-15.2]			
Nose	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Foot	Ulcer	Marked
	Scrotal	Ulcer	Marked
[Ulcer TGLS = 2-15.1]			
[Ulcer TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild
[Ectasia TGLS = 3-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5044

TRT#: 2

SEX: Male

DAY ON TEST: 306

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5105

TRT#: 3

SEX: Male

DAY ON TEST: 291

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Lymph Node - Mandibular	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Inflammation	Chronic Active, Moderate
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Skin	Scrotal	Abscess	Marked
[Abscess TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
Testes		Inflammation	Acute, Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5106

TRT#: 3

SEX: Male

DAY ON TEST: 362

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Casts Protein	Minimal
	Pelvis	Dilatation	Moderate
	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION TGLs = 2-12			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Note: CONGESTION TGLs = 3-4			
Lymph Node			
Note: MESENTERIC NORMAL			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Urinary Bladder		Ectasia	Mild
		Infiltration Cellular	Lymphocyte, Mild

[Ectasia TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5106

TRT#: 3

SEX: Male

DAY ON TEST: 362

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5107 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 703
DOSE: 1200 PPM **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Gallbladder
Heart	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Pituitary Gland	Seminal Vesicle	Stomach - Forestomach	Testes
Thyroid Gland	Trachea		

MISSING

Esophagus	Lymph Node - Mandibular	Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Mild
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Mild
Liver		Hepatocellular Carcinoma	
		Necrosis	Moderate
Note: CAUSE OF DEATH [Necrosis TGLS = 3-15.2]			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: REGIONAL L.N. MISSING			
Nose	Olfactory Epi	Degeneration	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Penis		Necrosis	Marked
Note: SLIDE 15.1			
Prostate		Inflammation	Acute, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5107

TRT#: 3

SEX: Male

DAY ON TEST: 703

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prepuce

Ulcer

Marked

[Alopecia TGLS = 1-15]

[Ulcer TGLS = 2-15.1]

Spleen

Hematopoietic Cell Proliferation

Marked

Note: HEMA CELL PROL TGLs = 6-12

Stomach

Glandular

Infiltration Cellular

Lymphocyte, Mild

Urinary Bladder

Ectasia

Moderate

Inflammation

Acute, Marked

[Ectasia TGLS = 4-5]

[Inflammation TGLS = 4-5]

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN INTESTINAL TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5108	TRT#: 3 DOSE: 1200 PPM	SEX: Male DISP: Dead	DAY ON TEST: 362 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC NORMAL			
Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5109

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Skin
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Hypertrophy Pigmentation	Minimal Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule Renal Tubule Renal Tubule	Dilatation Infiltration Cellular Necrosis Regeneration	Minimal Lymphocyte, Mild Minimal
Liver	Bile Duct	Hepatocellular Carcinoma Hyperplasia	Mild
Note: HEPATOCLR CARC TGLs = 2-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Lymphoma Malignant Mixed	Lymphoid, Mild
Note: LYMPH MAL MIXD TGLs = 3-1			
Note: LYMPH MAL ALSO IN HEPATIC L.N.			
Nose	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5109

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 1-12]

Stomach

Glandular, Mucosa

Forestomach

Lymphoma Malignant Mixed

Dilatation

Minimal

Inflammation

Acute, Minimal

Note: GL. STOM. SECT. ADEQUATE--NO ACTION REQ'D

Testes

Atrophy

Minimal

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5110

TRT#: 3

SEX: Male

DAY ON TEST: 335

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pituitary Gland
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Gallbladder
Intestine Small - Duodenum
Lymph Node - Mandibular
Prostate
Testes

Blood Vessel
Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Salivary Glands
Thymus

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Stomach - Forestomach
Thyroid Gland

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland
Bone

Capsule, Spindle Cell
Cranium

Hyperplasia
Inflammation

Mild
Chronic Active, Marked

Note: FEMUR NORMAL
Note: CAUSE OF DEATH

[Inflammation TGLS = 4-15.1]

Bone Marrow
Brain
Heart
Kidney
Liver
Lung

Myeloid Cell

Hyperplasia
Abscess
Inflammation
Infiltration Cellular
Hematopoietic Cell Proliferation
Abscess
Infiltration Cellular

Mild
Moderate
Chronic, Mild
Lymphocyte, Minimal
Mild
Moderate
Lymphocyte, Mild

Lymph Node
Nose

Mesenteric
Sinus

Hyperplasia
Inflammation

Lymphoid, Mild
Acute, Marked

Note: EXTENSION OF SKIN LESION--INFECTIOUS CAUSE

Skin

Head

Abscess

Marked

[Abscess TGLS = 1-15]

Spleen

Hematopoietic Cell Proliferation
Pigmentation

Moderate
Minimal

Note: HEMA CELL PROL TGLs = 3-12

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5110

TRT#: 3

SEX: Male

DAY ON TEST: 335

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:09
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5111

TRT#: 3

SEX: Male

DAY ON TEST: 691

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland
Seminal Vesicle	Skin	Stomach - Forestomach	Testes
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Anorectal Jct, Rectum	Ulcer	Marked
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Histiocytic Sarcoma	
Note: [HISTIO SARC] TGLs = 3-11			
Lung		Histiocytic Sarcoma	
Note: [HISTIO SARC] TGLs = 5-4			
Lymph Node	Mediastinal	Histiocytic Sarcoma	
	Mesenteric	Histiocytic Sarcoma	
	Renal	Histiocytic Sarcoma	
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: [HISTIO SARC] TGLs = 2-1,4-15,6-15.1			
Note: HISTIOCYTIC SARCOMA ALSO IN S.Q. LYMPH NODE.			
Nose	Olfactory Epi	Degeneration	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
		Histiocytic Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5111

TRT#: 3

SEX: Male

DAY ON TEST: 691

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HISTIO SARC] TGLs = 1-12

Note: HEMA CELL PROL TGLs = 1-12

Note: CAUSE OF DEATH

Stomach	Glandular	Erosion	Moderate
Note: EROSION	TGLs = 7-6		
Thymus		Histiocytic Sarcoma	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5112

TRT#: 3

SEX: Male

DAY ON TEST: 660

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Trachea			

MISSING

Esophagus	Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Mild Lymphocyte, Mild
Liver		Cyst	Mild
Lung		Alveolar/Bronchiolar Adenoma Congestion	 Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15]			
Preputial Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-15]			
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Prepuce Scrotal	Ulcer Ulcer	Marked Marked
[Ulcer TGLS = 2-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5112

TRT#: 3

SEX: Male

DAY ON TEST: 660

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 2-15]

Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

Testes

Atrophy

Moderate

Thyroid Gland

Infiltration Cellular

Lymphocyte, Minimal

Urinary Bladder

Inflammation

Acute, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5113

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Liver
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular Necrosis	Lymphocyte, Mild Minimal
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Stomach	Glandular, Mucosa	Dilatation	Mild
	Note: SECT. ADEQUETE--NO RECUT OR WET TIS. SEARCH.		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5114

TRT#: 3

SEX: Male

DAY ON TEST: 587

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Pelvis	Infiltration Cellular Inflammation	Lymphocyte, Mild Acute, Mild
Liver		Hepatocellular Carcinoma	
Note: CAUSE OF DEATH [Hepatocellular Carcinoma TGLS = 2-15]			
Lung	Alveolus	Alveolar/Bronchiolar Carcinoma Infiltration Cellular Infiltration Cellular	Histiocyte, Mild Lymphocyte, Mild
Note: LOCAL INFILTRATION--BASIS FOR DIAGNOSIS Note: ALV BRON CARC TGLs = 4-15.1			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: ALSO IN HEPATIC LYMPH NODE			
Penis		Inflammation	Acute, Moderate
[Inflammation TGLS = 1-15]			
Preputial Gland		Inflammation	Acute, Mild
Prostate		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5114

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 587
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin [Ulcer TGLS = 1-15]	Prepuce	Ulcer	Marked
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
Thymus		Cyst	
Urinary Bladder		Calculus Gross Observation Inflammation	Acute, Moderate
[Calculus Gross Observation TGLS = 3-5]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5115

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland
Prostate	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Adenoma Necrosis	Minimal
Note: CAUSE OF DEATH			
Note: [HEPATOCLR ADEN] TGLs = 1-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head	Ulcer	Moderate
Spleen		Hyperplasia Necrosis	Lymphoid, Mild Moderate
Stomach	Glandular	Erosion	Mild
[Erosion TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5115

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 702
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5116

TRT#: 3

SEX: Male

DAY ON TEST: 366

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Note: CAUSE OF DEATH			
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Minimal
Note: MESENTERIC NORMAL			
Note: HEPATIC L.N. NORMAL			
Nose	Lumen	Hemorrhage	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5117

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Granuloma Sperm	Moderate
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
	[Hematopoietic Cell Proliferation TGLS = 1-15]		
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5117

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Stomach	Glandular, Mucosa Glandular	Dilatation Infiltration Cellular	Mild Lymphocyte, Minimal
Note: DILATATION TGLs = 2-6 Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5118

TRT#: 3

SEX: Male

DAY ON TEST: 423

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Bone Marrow
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Thyroid Gland

Adrenal Gland - Medulla
Brain
Heart
Intestine Small - Duodenum
Lung
Pituitary Gland
Stomach - Glandular
Trachea

Blood Vessel
Epididymis
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Salivary Glands
Testes

Bone
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Skin
Thymus

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland
Kidney

Capsule, Spindle Cell
Pelvis

Hyperplasia
Dilatation
Inflammation

Mild
Minimal
Acute, Moderate

Note: DILATATION TGLs = 2-12

Liver

Note: [HYPERPLASIA] TGLs = 1-15

Lymph Node

Note: MESENTERIC NORMAL

Prostate

Spleen

Hyperplasia

Moderate

Inflammation

Hematopoietic Cell Proliferation

Pigmentation

Ectasia

Acute, Moderate

Mild

Mild

Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Animal Note: SEVERE AUTOLYSIS IN ALL TISSUES

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5119 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 729
DOSE: 1200 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Intestine Large	Anorectal Jct	Inflammation	Acute, Mild
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Liver		Basophilic Focus Hematopoietic Cell Proliferation Hypertrophy	Mild Mild
		Alveolar/Bronchiolar Adenoma	
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric Mesenteric	Hyperplasia Hyperplasia Inflammation	Lymphoid, Mild Lymphoid, Mild Acute, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild

Note: BASOPH FOCUS TGLs = 1-15
[Hematopoietic Cell Proliferation TGLS = 1-15.1]

Note: ALV BRON ADEN TGLs = 3-15

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5119

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Intermed	Adenoma	
Prostate		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa	Dilatation	Mild
Note: DILATATION	TGLs = 2-6		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5120

TRT#: 3

SEX: Male

DAY ON TEST: 425

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Pancreas	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Pituitary Gland
Thymus	Thyroid Gland		

OBSERVATIONS

Adrenal Gland Note: RECUT FOR MEDULLA	Capsule, Spindle Cell	Hyperplasia	Minimal
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node Note: WET TISSUE SEARCH FOR MANDIBULAR L.N.	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Mucosa	Inflammation	Acute, Minimal
Pituitary Gland Note: WET TISSUE SEARCH			
Prostate		Inflammation	Acute, Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus Note: WET TISSUE SEARCH			
Thyroid Gland Note: WET TISSUE SEARCH			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5120

TRT#: 3

SEX: Male

DAY ON TEST: 425

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: SEVERE AUTOLYSIS IN ALL TISSUES

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5121

TRT#: 3

SEX: Male

DAY ON TEST: 462

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Kidney	Pelvis	Inflammation	Acute, Moderate
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Animal Note: SEVERE AUTOLYSIS IN ALL TISSUES

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5122

TRT#: 3

SEX: Male

DAY ON TEST: 297

DOSE: 1200 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Pituitary Gland	Prostate	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urethra		

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Epididymis		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 4-5.1			
Note: RECUT REQUESTED			
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-15.1			
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 6-15.2			
Note: REGIONAL L.N. ALSO HYPERPLASIA			
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 5-15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5122

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 297
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Infiltration Cellular

Lymphocyte, Mild

Note: ECTASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5123

TRT#: 3

SEX: Male

DAY ON TEST: 443

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Inflammation	Acute, Marked
Intestine Small	Ileum	Amyloid Deposition	Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
	Mucosa	Inflammation	Acute, Mild
Penis		Necrosis	Marked
Note: NECROSIS	TGLs = 2-15		
Preputial Gland		Abscess	Marked
Note: ABSCESS	TGLs = 3-15.1		
Skin	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5123

TRT#: 3

SEX: Male

DAY ON TEST: 443

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5124

TRT#: 3

SEX: Male

DAY ON TEST: 570

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Pancreas	Parathyroid Gland	Penis
Pituitary Gland	Preputial Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Prostate	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC MISSING			
Nose	Olfactory Epi	Degeneration	Mild
Prostate			
Note: WET TISSUE SEARCH			
Skin	Prepuce	Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 1-15			
Thymus			
Note: WET TISSUE SEARCH			

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5125

TRT#: 3

SEX: Male

DAY ON TEST: 547

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Pancreas	Penis	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Intestine Small - Duodenum	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Necrosis	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
Seminal Vesicle		Dilatation	Mild
Note: DILATATION TGLs = 2-15.1			
Skin	Prepuce	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Urinary Bladder		Ectasia	Mild
Note: ECTASIA TGLs = 3-5			

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS OF ALL TISSUES

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5126

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Parathyroid Gland
Stomach - Forestomach
Trachea

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Pituitary Gland
Testes

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Prostate
Thymus

Esophagus
Intestine Small - Duodenum
Mammary Gland
Skin
Thyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone

Bone Marrow

Hemangiosarcoma
Hemangiosarcoma

Metastatic (Spleen)
Metastatic (Spleen)

Myeloid Cell

Hyperplasia
Mineralization

Marked
Mild

Brain

Gallbladder

Heart

Intestine Large

Kidney

Anus
Cortex

Inflammation
Erosion
Cyst

Lymphocyte, Mild
Chronic Active, Mild
Marked

Renal Tubule
Renal Tubule

Infiltration Cellular
Necrosis
Regeneration

Lymphocyte, Mild
Mild
Mild

Note: CYST TGLs = 5-15.2

Liver

Hemangiosarcoma
Hematopoietic Cell Proliferation

Metastatic (Spleen)
Mild

Note: HEMANGIOSARC TGLs = 3-15.1+11,4-15.1+11

Lung

Hemorrhage
Infiltration Cellular
Inflammation

Minimal
Lymphocyte, Mild
Acute, Mild

Lymph Node

Interstitialium
Mandibular
Mesenteric

Hyperplasia
Hyperplasia

Lymphoid, Mild
Lymphoid, Mild

Note: REGIONAL L.N. ALSO HYPERPLASTIC

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5126

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Minimal Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hemangiosarcoma Hematopoietic Cell Proliferation Hyperplasia	Moderate Lymphoid, Moderate
		[Hemangiosarcoma TGLS = 1-12+15,2-12+15] [Hematopoietic Cell Proliferation TGLS = 1-12+15] [Hyperplasia TGLS = 1-12+15]	
Stomach	Glandular, Mucosa	Dilatation	Minimal
	Note: SECT. ADEQUETE NO RECUT OR RETRIM NEEDED.		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5127

TRT#: 3

SEX: Male

DAY ON TEST: 34

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Kidney	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Lung		Congestion	Marked
Note: CONGESTION TGLs = 1-4			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: WET TISSUE SEARCH FOR MANDIBULAR L.N.			
Nose	Mucosa	Inflammation	Acute, Mild
Preputial Gland		Inflammation	Acute, Marked
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5128

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Pituitary Gland	Prostate	Stomach - Forestomach
Testes	Thymus	Trachea	

MISSING

Mammary Gland	Parathyroid Gland	Skin	
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
Stomach	Glandular	Edema	Mild
	Glandular	Inflammation	Acute, Mild
Note: EDEMA TGLs = 2-6+15			
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Ectasia	Mild
[Ectasia TGLS = 1-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5129 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 639
DOSE: 1200 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Pituitary Gland	Prostate
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	
		Inflammation	Acute, Minimal
Note: HEPATOCLR ADEN	TGLs = 3-15.2		
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Note: HYPERPLASIA	TGLs = 4-15		
Note: HYPERPLASIA	TGLs = 5-15.3		
Nose	Lumen	Hemorrhage	Mild
Pancreas		Cyst	
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 1-15.1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5129

TRT#: 3

SEX: Male

DAY ON TEST: 639

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Skin

Ulcer

Marked

Note: SLIDE 15.1

Spleen

Hematopoietic Cell Proliferation

Mild

Stomach

Glandular, Mucosa

Dilatation

Mild

Urinary Bladder

Ectasia

Moderate

Infiltration Cellular

Lymphocyte, Mild

Inflammation

Acute, Mild

Note: ECTASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5130

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Brain		Hemorrhage	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Cortex	Cyst	
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stomach			
Note: SECTS. ADEQUETE. NO RECUTS OR RETRIMS NEEDED.			
Thymus		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5130

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5131

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Inflammation	Chronic, Moderate
Harderian Gland		Adenoma	
[Adenoma TGLS = 2-15]			
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Mucosa	Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-5.1]			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5132

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Pancreas
Pituitary Gland	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
	Cortex	Pigmentation	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5133

TRT#: 3

SEX: Male

DAY ON TEST: 156

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Kidney	Liver	Lymph Node - Mandibular	Mammary Gland
Pancreas	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node			
Note: MESENTERIC NORMAL			
Nose	Lumen	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN ALL TISSUES

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5134

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland
Prostate	Salivary Glands	Skin	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Casts Protein	Mild
	Renal Tubule	Dilatation	Mild
Liver		Lymphoma Malignant Mixed	
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Mild
		Hepatocellular Carcinoma Infiltration Cellular	Lymphocyte, Minimal
Lung		Congestion	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node		Infiltration Cellular	Lymphocyte, Mild
	Mesenteric	Congestion	Marked
	Mesenteric	Inflammation	Acute, Mild
	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: CONGESTION	TGLs = 3-1		
Note: LYMPH MAL ALSO IN REGIONAL L.N.			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5134	TRT#: 3 DOSE: 1200 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Preputial Gland		Abscess	Marked
[Abscess TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Edema	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Inflammation	Acute, Mild
Note: EDEMA	TGLs = 4-6		
Note: DILATATION	TGLs = 4-6		
Testes		Atrophy	Mild
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5135

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
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AUTO PRECLUDES DIAG.

Urinary Bladder

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic Active, Mild
Kidney	Renal Tubule	Dilatation	Mild
	Pelvis	Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-12			
Note: INFLAMMATION--CAUSE OF DEATH			
Liver		Necrosis	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitialium	Inflammation	Acute, Moderate
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
Penis		Necrosis	Marked
[Necrosis TGLS = 1-15]			
Preputial Gland		Cyst	
Prostate		Infiltration Cellular	Lymphocyte, Mild
Skin	Subcut Tiss	Edema	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5135

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prepuce

Ulcer

Marked

Ulcer

Marked

Note: EDEMA TGLs = 4-15.1
Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5136 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 639
DOSE: 1200 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Moderate
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Moderate
	Prepuce	Ulcer	Marked
Note: ALOPECIA	TGLs = 2-15.1		
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Ectasia	Mild
		Inflammation	Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5136

TRT#: 3

SEX: Male

DAY ON TEST: 639

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA TGLs = 3-15.2

Note: INFLAMMATION TGLs = 4-15.2

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5137

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal
Penis		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 1-15]			
Prostate		Infiltration Cellular	Lymphocyte, Mild
Skin	Neck	Alopecia	Mild
Note: ALOPECIA TGLs = 2-15.1			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Stomach	Glandular	Erosion	Mild
Note: EROSION TGLs = 5-6			
Urinary Bladder		Calculus Micro Observation Only	
		Inflammation	Chronic Active, Marked
Note: CALCUS MIC OBS TGLs = 3-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5137

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5138

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
		Ito Cell Tumor Malignant	
Note: [ITO CL TM MAL] TGLs = 2-11+15+15.1			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
[Hematopoietic Cell Proliferation TGLS = 1-12]			
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: SECT. ADEQUETE--NO RECUT OR RETRIM NEEDED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5138	TRT#: 3 DOSE: 1200 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS		
Urinary Bladder	Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5139

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Prostate
Skin	Stomach - Forestomach	Testes	Thymus
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
Liver		Regeneration	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN	TGLs = 4-15.2		
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 5-15.4+1		
Note: LYMPH MAL ALSO IN REGIONAL L.N.			
Penis		Inflammation	Acute, Mild
Note: INFLAMMATION	TGLs = 1-15		
Pituitary Gland	Pars Intermed	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5139

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 3-12]

Stomach Glandular, Mucosa
Note: SECTS. ADEQUETE. NO RECUTS OR RETRIMS NEEDED

Thyroid Gland Follicle
Follicle

Urinary Bladder

Note: ECTASIA TGLs = 2-5

Lymphoma Malignant Mixed

Dilatation

Minimal

Dilatation

Moderate

Hyperplasia

Moderate

Ectasia

Moderate

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5140

TRT#: 3

SEX: Male

DAY ON TEST: 524

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Nose	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Intestine Large	Anus	Ulcer	Marked
Kidney	Pelvis	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Mild
[Dilatation TGLS = 4-12]			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-15.2]			
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15.1]			
Prostate		Inflammation	Acute, Marked
Skin	Scrotal	Ulcer	Marked
[Ulcer TGLS = 2-15+15.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5140

TRT#: 3

SEX: Male

DAY ON TEST: 524

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 5-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5141

TRT#: 3

SEX: Male

DAY ON TEST: 510

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Liver
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Minimal
Brain		Mineralization	Mild
Epididymis		Inflammation	Acute, Moderate
Intestine Large	Anus	Ulcer	Marked
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC NORMAL			
Skin		Alopecia	Moderate
		Ulcer	Marked
Note: ULCER TGLs = 2-15.1 [Alopecia TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Mild
Urethra		Inflammation	Acute, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:09
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5142

TRT#: 3

SEX: Male

DAY ON TEST: 720

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Islets, Pancreatic	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Pelvis	Inflammation	Acute, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
		Necrosis	Moderate
Note: CAUSE OF DEATH--CARICINOMA [Hepatocellular Carcinoma TGLS = 2-15]			
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Mild
Note: HEPATIC L.N.--NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5142

TRT#: 3

SEX: Male

DAY ON TEST: 720

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Acute, Moderate
Salivary Glands		Mineralization	Mild
Note: MINERAL IN SLIDE 3.1			
Skin	Head, Subcut Tiss	Abscess	Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Urinary Bladder		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:09
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5143 TRT#: 3 SEX: Male DAY ON TEST: 428
 DOSE: 1200 PPM DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Pituitary Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Minimal
Note: INFILTRAT CELL TGLs = 6-12			
Liver		Necrosis	Mild
Note: NECROSIS TGLs = 3-15+11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Prostate		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 4-5,5-5			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa	Dilatation	Minimal
Urinary Bladder		Ectasia	Mild
[Ectasia TGLS = 1-5]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5143

TRT#: 3

SEX: Male

DAY ON TEST: 428

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5144

TRT#: 3

SEX: Male

DAY ON TEST: 467

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pancreas
Pituitary Gland	Stomach - Forestomach	Testes	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
	Peribronchiolr	Inflammation	Chronic Active, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: MEDIASTINAL IN SLIDE 2A			
Note: HYPERPLASIA TGLs = 2-15.1			
Nose	Lumen	Hemorrhage	Mild
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Acute, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Prepuce	Ulcer	Marked
[Ulcer TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa	Dilatation	Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5144

TRT#: 3

SEX: Male

DAY ON TEST: 467

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5145

TRT#: 3

SEX: Male

DAY ON TEST: 565

DOSE: 1200 PPM

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-15.1]			
Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 2-15.2]			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Mild
Note: HYPERPLASIA TGLs = 3-15			
Nose	Turbinate	Congestion	Moderate
	Olfactory Epi	Degeneration	Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5146

TRT#: 3

SEX: Male

DAY ON TEST: 565

DOSE: 1200 PPM

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
Nose	Turbinate	Congestion	Mild
	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal
Spleen		Pigmentation	Minimal
Urinary Bladder		Ectasia	Mild
		Inflammation	Acute, Mild

[Ectasia TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5147

TRT#: 3

SEX: Male

DAY ON TEST: 716

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Pituitary Gland	Prostate	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Inflammation	Chronic Active, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	
		[Hepatocellular Adenoma TGLS = 3-15.1]	
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
		Note: REGIONAL L.N. NORMAL	
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Penis		Inflammation	Acute, Mild
		[Inflammation TGLS = 2-15]	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5147

TRT#: 3

SEX: Male

DAY ON TEST: 716

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ULCER TGLs = 1-15
[Alopecia TGLS = 4-7]

Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5148

TRT#: 3

SEX: Male

DAY ON TEST: 571

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Thymus	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
Note: FOCAL AUTOLYTIC ARTIFACT			
Brain		Mineralization	Minimal
Epididymis		Inflammation	Acute, Marked
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15]			
Prostate		Inflammation	Acute, Mild
Skin	Prepuce	Ulcer	Marked
		Ulcer	Moderate
Note: ULCER ALSO PRESENT IN ROUTINE SECTION			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Testes		Inflammation	Acute, Moderate
Thyroid Gland	Follicle	Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5148

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 571
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urethra	Calculus Micro Observation Only	
Note: SLIDE 15		
Urinary Bladder	Ectasia	Mild
	Inflammation	Acute, Moderate
Note: ECTASIA TGLs = 2-5		

PRIMARY CAUSE OF DEATH -
Animal Note: UREMIA--PROBABLE CAUSE OF DEATH

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5149

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Testes

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Pituitary Gland
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Skin
Thyroid Gland

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Blood Vessel

Capsule, Spindle Cell
Aorta
Aorta

Hyperplasia
Inflammation
Mineralization

Moderate
Chronic, Moderate
Mild

Note: LESION ON SLIDE 9

Bone Marrow
Brain
Gallbladder
Kidney

Myeloid Cell

Renal Tubule

Renal Tubule

Hyperplasia
Mineralization
Infiltration Cellular
Dilatation
Infiltration Cellular
Necrosis
Hematopoietic Cell Proliferation
Alveolar/Bronchiolar Adenoma
Infiltration Cellular

Mild
Moderate
Lymphocyte, Minimal
Minimal
Lymphocyte, Mild
Minimal
Mild

Liver
Lung

Congestion
Hyperplasia
Degeneration
Hemorrhage

Lymphocyte, Mild
Mild
Lymphoid, Mild
Mild
Mild

Lymph Node

Nose

Mesenteric
Mandibular
Olfactory Epi
Lumen

Infiltration Cellular
Infiltration Cellular
Infiltration Cellular
Hematopoietic Cell Proliferation
Pigmentation

Lymphocyte, Mild
Lymphocyte, Minimal
Lymphocyte, Mild
Mild
Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5149

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach

Glandular, Mucosa
Glandular

Dilatation
Infiltration Cellular

Minimal
Lymphocyte, Mild

Note: SECTS. ADEQUETE. NO RECUTS OR RETRIMS NEEDED

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5150

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Hemangiosarcoma	
Kidney	Renal Tubule Renal Tubule	Infiltration Cellular Necrosis	Lymphocyte, Mild Minimal
Liver		Regeneration	Mild
Lung		Hematopoietic Cell Proliferation	Minimal
Lymph Node	Mandibular Mesenteric Mesenteric	Infiltration Cellular Hyperplasia Hyperplasia Inflammation	Lymphocyte, Mild Lymphoid, Mild Lymphoid, Mild Acute, Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Prostate		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia	Mild Lymphoid, Marked

Note: SECTS. ADEQUETE. NO RECUTS OR RETRIMS NEEDED

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5150

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5151

TRT#: 3

SEX: Male

DAY ON TEST: 572

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Inflammation	Chronic Active, Marked
Heart		Inflammation	Acute, Moderate
	Atrium	Thrombosis	
Note: BACTERIAL COCCI--ETIOLOGY			
Kidney	Pelvis	Calculus Micro Observation Only	
	Pelvis	Hemorrhage	Moderate
		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Marked
Note: CALCUS MIC OBS TGLs = 2-12			
Note: CAUSE OF DEATH			
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 4-11			
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitium	Inflammation	Acute, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5151

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 572
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Organ	Accountable Site	Status
Penis	Lumen	Hemorrhage Inflammation
Note: INFLAMMATION	TGLs = 1-15	Minimal Marked
Prostate		Inflammation
Salivary Glands		Infiltration Cellular
Spleen		Hematopoietic Cell Proliferation
Urinary Bladder		Inflammation
Note: INFLAMMATION	TGLs = 3-5	Acute, Marked Lymphocyte, Mild Mild Acute, Moderate
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5152

TRT#: 3

SEX: Male

DAY ON TEST: 528

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Pelvis	Dilatation	Marked
	Pelvis	Inflammation	Chronic Active, Marked
Note: INFLAMMATION IS CAUSE OF DEATH			
[Dilatation TGLS = 2-12]			
Liver		Infarct	Marked
[Infarct TGLS = 1-15+11]			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Mild
Nose	Lumen	Hemorrhage	Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skeletal Muscle		Inflammation	Acute, Mild
Note: SLIDE 15.1			
Spleen		Necrosis	Marked
Urinary Bladder		Calculus Gross Observation	
		Inflammation	Chronic Active, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5152

TRT#: 3

SEX: Male

DAY ON TEST: 528

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CALCUS GRO OBS TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5153

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Pituitary Gland	Skin	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 1,5-15+15.1			
Note: TWO MASSES--EACH IS AN ADENOMA			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Note: REGIONAL L.N. FOR LIVER MASSES NORMAL			
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5153

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMANGIOSARC TGLs = 2-15.2
Stomach

Glandular, Mucosa
Forestomach
Forestomach
Glandular

Dilatation
Erosion
Hyperplasia
Inflammation

Minimal
Mild
Squamous, Focal, Moderate
Acute, Mild

Note: [HYPERPLASIA] TGLs = 4-15.5
[Inflammation TGLS = 3-6+15.4]

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5154

TRT#: 3

SEX: Male

DAY ON TEST: 633

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Brain	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Pancreas	Pituitary Gland	Prostate	Testes
Thymus	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Bone Note: FRACTURE TGLs = 3-15.2 Note: FEMUR NORMAL	Tibia	Fracture	
Bone Marrow Harderian Gland [Adenoma TGLS = 2-15.1]	Myeloid Cell	Hyperplasia Adenoma	Mild
Intestine Large Islets, Pancreatic	Cecum	Parasite Metazoan Adenoma	
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
Liver Lung Note: CONGESTION TGLs = 4-4	Renal Tubule	Regeneration Hematopoietic Cell Proliferation Congestion Infiltration Cellular	Minimal Minimal Mild Lymphocyte, Mild
Lymph Node Note: MESENTERIC L.N. NORMAL	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Minimal Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5154

TRT#: 3

SEX: Male

DAY ON TEST: 633

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
[Alopecia TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thyroid Gland	Follicle	Dilatation	Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5155

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Esophagus	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Gallbladder		Lymphoma Malignant Undifferentiated Cell Type	
Intestine Large	Cecum Cecum	Lymphoma Malignant Undifferentiated Cell Type Parasite Metazoan	
Intestine Small	Jejunum	Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF]	TGLs = 4-15.7,3-15.3		
Kidney	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Minimal
Liver		Hematopoietic Cell Proliferation Lymphoma Malignant Undifferentiated Cell Type	Mild
Note: [LYMPH MAL UNDF]	TGLs = 5-11+15.5		
Lung		Lymphoma Malignant Undifferentiated Cell Type	
Lymph Node	Iliac Mandibular Mediastinal Mesenteric Renal	Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF]	TGLs = 6-15,7-15.4,8-15.1,9-15.2		
Note:	LYMPH MAL ALSO IN HEPATIC L.N.		
Note: [LYMPH MAL UNDF]	TGLs = 10-15.6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5155

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Lymphoma Malignant Undifferentiated Cell Type	
Nose	Olfactory Epi	Degeneration	Mild
	Submucosa	Lymphoma Malignant Undifferentiated Cell Type	
Pancreas		Lymphoma Malignant Undifferentiated Cell Type	
Prostate		Lymphoma Malignant Undifferentiated Cell Type	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF] TGLs = 1-12,2-12			
Testes		Lymphoma Malignant Undifferentiated Cell Type	
Thymus		Lymphoma Malignant Undifferentiated Cell Type	
Tooth	Pulp	Lymphoma Malignant Undifferentiated Cell Type	
Urinary Bladder		Lymphoma Malignant Undifferentiated Cell Type	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5156

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Testes	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Basophilic Focus Inflammation	Moderate Acute, Minimal
Note: [BASOPH FOCUS] TGLs = 1-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Mucosa Olfactory Epi	Inflammation Metaplasia	Acute, Minimal Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hemangiosarcoma Hematopoietic Cell Proliferation	 Minimal
Stomach	Glandular	Inflammation	Acute, Minimal
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:09
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5156

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:09

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5157

TRT#: 3

SEX: Male

DAY ON TEST: 463

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hyperplasia	Moderate
		Necrosis	Marked
Note: NECROSIS TGLs = 7-15.3			
Note: [HYPERPLASIA] TGLs = 7-15.3			
Note: CAUSE OF DEATH--NECROSIS			
Lung	Alveolar	Alveolar/Bronchiolar Adenoma	Multiple
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Infiltration Cellular	Lymphocyte, Mild
	Interstitium	Inflammation	Acute, Minimal
Note: ALV BRON ADEN TGLs = 3-15.4			
Note: ALV BRON ADEN TGLs = 4-15.5			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Minimal
	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Note: MEDIASTINAL L.N. SLIDE 15.1			
Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5157	TRT#: 3 DOSE: 1200 PPM	SEX: Male DISP: Dead	DAY ON TEST: 463 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Penis		Necrosis	Marked
Preputial Gland		Abscess	Marked
Note: ABSCESS	TGLs = 2-15.2		
Prostate		Inflammation	Acute, Moderate
Skin	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5158

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Pigmentation	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Harderian Gland		Cyst	
Note: CYST	TGLs = 7-15.3		
Heart		Inflammation	Chronic, Mild
Intestine Large	Anus	Ulcer	Marked
Kidney		Abscess	Marked
	Pelvis	Inflammation	Acute, Marked
Note: ABSCESS--CAUSE OF DEATH			
Note: ABSCESS	TGLs = 6-12		
Liver		Hepatocellular Carcinoma	
		Necrosis	Marked
Note: CAUSE OF DEATH--CARCINOMA & NECROSIS			
Note: NECROSIS	TGLs = 4-15.1+15.2+11		
	[Necrosis TGLS = 5-15.2]		
Lung		Hemorrhage	Moderate
		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Lymphocyte, Mild
Note: HEPATOCHOLCARC	TGLs = 2-4		
	[Hemorrhage TGLS = 2-4]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5158

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node Note: MESENTERIC NORMAL	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Mucosa	Inflammation	Acute, Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Penis [Inflammation TGLS = 1-15]		Inflammation	Acute, Marked
Prostate		Infiltration Cellular	Lymphocyte, Mild
Skeletal Muscle Note: INFLAMMATION TGLs = 9-15.4		Inflammation	Chronic Active, Mild
Spleen Note: HEMA CELL PROL TGLs = 3-12		Hematopoietic Cell Proliferation	Moderate
Urinary Bladder Note: CALCUS MIC OBS TGLs = 8-5		Calculus Micro Observation Only Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5159

TRT#: 3

SEX: Male

DAY ON TEST: 547

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Heart	Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow		Fibrosis	Moderate
	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Mild
	Capsule	Inflammation	Chronic, Marked
		Inflammation	Acute, Moderate
	Renal Tubule	Regeneration	Mild
	[Regeneration TGLS = 4-15.2]		
Liver		Hematopoietic Cell Proliferation	Mild
	Serosa	Inflammation	Chronic, Marked
Note: INFLAMMATION TGLs = 3-15.2			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node		Inflammation	Acute, Moderate
Note: LYMPH NODE IS MESENTERIC			
Note: INFLAMMATION TGLs = 5-1			
Nose	Lumen	Hemorrhage	Mild
Prostate		Inflammation	Chronic Active, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Seminal Vesicle		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 7-15.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5159	TRT#: 3 DOSE: 1200 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 547 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skeletal Muscle Note: SLIDE 15.2		Inflammation	Chronic, Moderate
Skin [Inflammation TGLS = 1-15.3]	Prepuce	Inflammation	Acute, Moderate
Spleen Note: HEMA CELL PROL TGLs = 6-12		Hematopoietic Cell Proliferation	Marked
Urinary Bladder [Ectasia TGLS = 2-5] [Inflammation TGLS = 2-5]		Ectasia Inflammation	Moderate Chronic Active, Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5160

TRT#: 3

SEX: Male

DAY ON TEST: 638

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Nose	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Heart		Inflammation	Acute, Mild
Kidney	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Liver		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Mild
Note: CAUSE OF DEATH--HEMANGIOSARCOMA [Hemangiosarcoma TGLs = 2-15.1]			
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Lymphoid, Mild
Note: REGIONAL			
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 4-15.4			
Preputial Gland		Cyst	Moderate
Note: CYST TGLs = 3-15+15.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5160	TRT#: 3 DOSE: 1200 PPM	SEX: Male DISP: Moribund	DAY ON TEST: 638 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Foot	Ulcer	Marked
	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15.2		
Note: ULCER	TGLs = 5-15.5		
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: EROSION	TGLs = 6-6		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5161

TRT#: 3

SEX: Male

DAY ON TEST: 530

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Epididymis	Heart
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Prostate	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Urinary Bladder		

MISSING

Gallbladder	Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
Pituitary Gland			

AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Islets, Pancreatic	Kidney
Liver	Nose	Pancreas	Salivary Glands
Skin	Spleen	Thymus	Trachea

OBSERVATIONS

Brain		Mineralization	Mild
Lymph Node	Mandibular	Autolysis	Marked
	Mesenteric	Autolysis	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5162

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Inflammation	Chronic Active, Marked
Liver		Basophilic Focus	Moderate
		Infarct	Marked
		Necrosis	Marked
Note: [BASOPH FOCUS] TGLs = 2-11+15.2			
Note: NECROSIS TGLs = 1-15.3			
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
Note: ALV BRON ADEN TGLs = 4-15			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Nose	Lumen	Hemorrhage	Moderate
Penis		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 3-15.1			
Prostate		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Note: GLANDULAR SECTION ADEQUATE NO RECUT OR RETRIM NEEDED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5162

TRT#: 3
DOSE: 1200 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5163 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 524
DOSE: 1200 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Pituitary Gland	Prostate	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-15.2			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Iliac	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-15.3]			
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15]			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Ulcer	Marked
[Ulcer TGLS = 2-15.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Note: SECTION ADEQUETE--NO RECUT OR RETRIM			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5163

TRT#: 3

SEX: Male

DAY ON TEST: 524

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5164

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Spleen	Stomach - Forestomach	Testes
Thymus	Trachea		

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone	Femur	Hyperostosis	Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Note: SECTIONS ADEQUATE NO RECUT OR RETRIM NEEDED			
Thyroid Gland		Inflammation	Acute, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5225

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Testes

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Pancreas
Thymus

Blood Vessel
Intestine Large - Cecum
Intestine Small - Ileum
Pituitary Gland
Trachea

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach

MISSING

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Bone
Bone Marrow
Brain
Gallbladder
Kidney

Capsule, Spindle Cell
Cranium

Pelvis

Renal Tubule
Renal Tubule

Hyperplasia
Inflammation
Inflammation
Mineralization
Inflammation
Dilatation
Infiltration Cellular
Necrosis
Regeneration

Mild
Chronic Active, Marked
Acute, Moderate
Mild
Chronic Active, Moderate
Mild
Lymphocyte, Mild
Minimal
Minimal

[Dilatation TGLS = 3-12]

Liver
Lung

Hematopoietic Cell Proliferation
Hemorrhage
Infiltration Cellular

Minimal
Minimal
Lymphocyte, Mild

Lymph Node

Mandibular
Mesenteric
Respirat Epith

Hyperplasia
Hyperplasia
Inflammation
Inflammation

Lymphoid, Mild
Lymphoid, Mild
Acute, Mild
Chronic, Moderate

[Inflammation TGLS = 2-15]

Prostate
Salivary Glands
Skin

Infiltration Cellular
Infiltration Cellular
Inflammation

Lymphocyte, Mild
Lymphocyte, Mild
Chronic Active, Moderate

Note: INFLAMMATION TGLs = 1-15.1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5225

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NO ULCER FOUND ON SEARCH

Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Note: SECT. ADEQUETE. NO RECUT/RETRIM NEEDED			
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Tooth	Pulp	Inflammation	Chronic Active, Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5226

TRT#: 4

SEX: Male

DAY ON TEST: 562

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hemorrhage	Moderate
Skin	Ventral	Alopecia	Mild

Note: ALOPECIA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5227

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Thyroid Gland	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
---------------	-------------------

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen Septum	Degeneration Hemorrhage Inflammation	Mild Mild Chronic Active, Moderate

Note: EACH DX FOUND IN SEPARATE SECTION

Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa Glandular Glandular	Dilatation Infiltration Cellular Inflammation	Minimal Lymphocyte, Mild Acute, Mild
Testes		Atrophy	Mild
Thymus		Inflammation	Chronic Active, Minimal
Tooth	Pulp	Inflammation	Acute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5227	TRT#: 4 DOSE: 120 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Trachea	Glands	Inflammation	Acute, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5228

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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
Nose	Pancreas	Pituitary Gland	Prostate
Skin	Stomach - Glandular	Testes	Thymus
Thyroid Gland			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Hemorrhage	Minimal
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Mild
Lung		Hemorrhage Infiltration Cellular	Minimal Lymphocyte, Minimal
Lymph Node			
Note: MESENTERIC NORMAL			
Preputial Gland		Abscess	Marked
[Abscess TGLS = 1-15]			
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal
Stomach	Forestomach	Hyperplasia	Squamous, Mild
Note: HYPERPLASIA TGLs = 2-15			
Trachea	Glands	Inflammation	Acute, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5228

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5229

TRT#: 4

SEX: Male

DAY ON TEST: 583

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Rectum	Ulcer	Marked
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
Nose	Lumen	Hemorrhage	Mild
Salivary Glands		Infiltration Cellular	Mild
Skin	Abdominal	Abscess	Marked
Note: ABSCESS	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Mild
Note: ECTASIA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5230 **TRT#:** 4 **SEX:** Male **DAY ON TEST:** 556
DOSE: 120 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

MISSING

Gallbladder	Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Mineralization	Minimal
	Renal Tubule	Necrosis	Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 6-11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Iliac	Hyperplasia	Reticulum Cell, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-15			
Skin	Ventral	Alopecia	Minimal
	Prepuce	Ulcer	Marked
Note: ULCER TGLs = 2-15			
Note: ALOPECIA TGLs = 1-7			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5230

TRT#: 4

SEX: Male

DAY ON TEST: 556

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [ADENOMA] TGLs = 5-5.1

Thyroid Gland

Follicle

Hyperplasia

Mild

Tooth

Pulp

Inflammation

Chronic, Minimal

Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: RECUT BL.14C--POSSIBLE DENTAL LESION

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5231

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	
		Infiltration Cellular	Lymphocyte, Minimal
Note: HEPATOCLR CARC TGLs = 3-15.1			
Lung		Congestion	Moderate
		Hemorrhage	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: HEMORRHAGE TGLs = 5-15.3			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Inflammation	Acute, Moderate
Note: HYPERPLASIA TGLs = 4-15.2+1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5231	TRT#: 4 DOSE: 120 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION	TGLs = 4-15.2+1		
Nose	Lumen	Hemorrhage	Moderate
Preputial Gland		Cyst	Moderate
[Cyst TGLS = 1-15]			
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA	TGLs = 2-12		
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Testes		Atrophy	Mild
Tooth	Pulp	Inflammation	Acute, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5232

TRT#: 4

SEX: Male

DAY ON TEST: 619

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Epididymis	Esophagus
Gallbladder	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	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Inflammation	Chronic, Minimal
Kidney	Pelvis	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Mineralization	Minimal
Note: DILATATION	TGLs = 5-12		
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Penis		Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 1-15		
Skin	Subcut Tiss	Edema	Mild
Note: EDEMA	TGLs = 2-15		
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 4-12		
Urinary Bladder		Ectasia	Minimal
		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5232

TRT#: 4

SEX: Male

DAY ON TEST: 619

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5233

TRT#: 4

SEX: Male

DAY ON TEST: 640

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Pituitary Gland	Prostate	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Kidney	Renal Tubule	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 3-15			
Note: PROBABLE CAUSE OF DEATH			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
Note: REGIONAL LYMPH NODE NORMAL			
Nose	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-12			
Stomach	Glandular	Erosion	Moderate
	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Note: EROSION TGLs = 5-6,15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5233

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 640
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFILTRAT CELL TGLs = 5-6

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5234

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Parathyroid Gland

Pituitary Gland

Prostate

Skin

Stomach - Glandular

Thyroid Gland

Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Minimal

Bone Marrow

Myeloid Cell

Hyperplasia

Mild

Brain

Lymphoma Malignant Histiocytic

Mineralization

Mild

Epididymis

Lymphoma Malignant Histiocytic

Gallbladder

Infiltration Cellular

Lymphocyte, Minimal

Heart

Infiltration Cellular

Lymphocyte, Mild

Lymphoma Malignant Histiocytic

Kidney

Renal Tubule

Casts Protein

Moderate

Renal Tubule

Dilatation

Moderate

Renal Tubule

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Necrosis

Moderate

Regeneration

Moderate

Liver

Hepatocellular Carcinoma

Note: HEPATOCLR CARC TGLs = 3-15

Lung

Congestion

Moderate

Hemorrhage

Minimal

Lymphoma Malignant Histiocytic

Lymph Node

Mandibular

Lymphoma Malignant Histiocytic

Mesenteric

Lymphoma Malignant Histiocytic

Note: LYMPH MAL HIST TGLs = 4-3.1,5-1

Note: LYMPH MAL ALSO IN REGIONAL L.N.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5234

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Nasolacrim Dct	Inflammation	Acute, Minimal
Pancreas	Acinus	Atrophy	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST TGLs = 2-12			
Stomach	Forestomach	Ulcer	Moderate
Note: NO NODULE FOUND ON RECUT			
Note: ULCER TGLs = 6-6			
Testes		Atrophy	Moderate
Note: ATROPHY TGLs = 1-5.1			
Thymus		Lymphoma Malignant Histiocytic	
Tooth	Peridont Tiss	Inflammation	Chronic Active, Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5235

TRT#: 4

SEX: Male

DAY ON TEST: 564

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Prostate	Skeletal Muscle	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

MISSING

Mammary Gland	Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
Liver	Caudate Lobe	Infarct	Marked
Note: INFARCT	TGLs = 2-15		
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: REGIONAL LYMPH NODE NORMAL			
Nose	Vomeronas Org	Congestion	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 3-12		
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5235

TRT#: 4

SEX: Male

DAY ON TEST: 564

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5236

TRT#: 4

SEX: Male

DAY ON TEST: 633

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Brain		Mineralization	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Moderate
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Respirat Epith	Degeneration	Minimal
Penis		Inflammation	Marked
Note: INFLAMMATION	TGLs = 2-15.2		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Moderate
	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked
Note: ALOPECIA	TGLs = 1-15		
Note: ULCER	TGLs = 3-15.2		
Note: ULCER	TGLs = 3-15.5		
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5236

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 633
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Hyperplasia	Lymphoid, Marked
Testes		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Atrophy	Moderate
		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5237

TRT#: 4

SEX: Male

DAY ON TEST: 509

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Hydronephrosis	Moderate
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Mineralization	Minimal
Note: HYDRONEPHROSIS TGLs = 2-12			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Peribronchiolr	Inflammation	Chronic, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Nose	Olfactory Epi	Degeneration	Minimal
Prostate		Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Prepuce	Abscess	Marked
	Foot	Ulcer	Marked
Note: ULCER TGLs = 3-15			
Note: ABSCESS TGLs = 1-15.1			
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5237

TRT#: 4

SEX: Male

DAY ON TEST: 509

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5238

TRT#: 4

SEX: Male

DAY ON TEST: 633

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Moderate
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA	TGLs = 3-15.3		
Nose	Lumen	Hemorrhage	Mild
Penis		Necrosis	Marked
Note: NECROSIS	TGLs = 1-15.1		
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head, Subcut Tiss	Inflammation	Chronic Active, Mild
	Prepuce	Ulcer	Marked
Note: ULCER	TGLs = 2-15.5		
Spleen		Hematopoietic Cell Proliferation	Moderate
Urinary Bladder		Inflammation	Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5238

TRT#: 4

SEX: Male

DAY ON TEST: 633

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CONTRIBUTORY TO DEATH

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5239

TRT#: 4

SEX: Male

DAY ON TEST: 590

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	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	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Pelvis	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Mild
Note: DILATATION TGLs = 4-12			
Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
		Necrosis	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
	Perivascular	Inflammation	Acute, Minimal
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIS LYMPH NODE NORMAL			
Note: HYPERPLASIA TGLs = 5-15.2			
Penis		Abscess	Marked
Note: ABSCESS TGLs = 1-15.1			
Prostate		Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5239

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 590
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen Note: HEMA CELL PROL TGLs = 3-12	Hematopoietic Cell Proliferation	Mild
Urinary Bladder Note: ECTASIA TGLs = 2-5	Ectasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5240 **TRT#:** 4 **SEX:** Male **DAY ON TEST:** 501
DOSE: 120 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Pituitary Gland	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Prostate		Inflammation	Acute, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Prepuce	Abscess	Marked
	Inguinal	Ulcer	Moderate
		Ulcer	Moderate
[Abscess TGLS = 1-15.5]			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5241

TRT#: 4

SEX: Male

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Anorectal Jct	Erosion	Mild
Kidney	Pelvis	Dilatation	Mild
	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Minimal
	[Dilatation TGLS = 2-12]		
Liver		Hepatocellular Adenoma	
	Note: HEPATOCLR ADEN TGLs = 4-15.2 Note: FOCUS NOT FOUND ON SEARCH		
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Note: HEPATIC L.N.ALSO HYPERPLASTIC Note: MESENTERIC L.N. NORMAL		
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5241

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Penis		Infiltration Cellular Inflammation	Lymphocyte, Mild Chronic, Moderate
Note: ALSO MARKED OSSEOUS PROLIFERATION			
Note: INFLAMMATION TGLs = 1-15			
Stomach	Forestomach Glandular	Hyperplasia Infiltration Cellular Infiltration Cellular Inflammation	Squamous, Mild Lymphocyte, Minimal Lymphocyte, Mild Acute, Moderate
Urinary Bladder			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5242

TRT#: 4

SEX: Male

DAY ON TEST: 687

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Inflammation	Acute, Mild
Heart		Inflammation	Acute, Minimal
Kidney		Abscess	Marked
	Pelvis	Dilatation	Mild
	Pelvis	Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 7-15.3 [Abscess TGLS = 6-12] [Inflammation TGLS = 7-15.3]			
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Moderate
Pancreas	Acinus	Atrophy	Mild
		Inflammation	Chronic Active, Mild
Penis		Inflammation	Chronic Active, Moderate
Preputial Gland		Abscess	Marked
Note: ABSCESS TGLs = 2-15.1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5242	TRT#: 4 DOSE: 120 PPM	SEX: Male DISP: Dead	DAY ON TEST: 687 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Acute, Moderate
Skin	Prepuce	Ulcer	Marked
Note: ULCER	TGLs = 1-15.1		
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Note: HEMA CELL PROL	TGLs = 3-12		
Testes		Atrophy	Marked
Note: ATROPHY	TGLs = 8-5.1		
Ureter		Dilatation	Mild
Note: DILATATION	TGLs = 5-15.2		
Urinary Bladder		Ectasia	Mild
[Ectasia TGLS = 4-5]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5243 **TRT#:** 4 **SEX:** Male **DAY ON TEST:** 730
DOSE: 120 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Pituitary Gland	Skin	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
Note: HEPATOCLR ADEN TGLs = 3-15.3			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
		Inflammation	Acute, Mild
	Iliac	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-1,5-15.2			
Note: INFLAMMATION IN REGIONAL L.N.			
Nose	Lumen	Hemorrhage	Mild
	Mucosa	Inflammation	Acute, Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Penis		Inflammation	Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5243

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 1-15]

Prostate		Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant Mixed	
Stomach	Glandular, Mucosa	Dilatation	Minimal
Tooth	Pulp	Inflammation	Chronic Active, Moderate
Urinary Bladder		Ectasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Mild

[Ectasia TGLS = 2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5244

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Pituitary Gland	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Pelvis	Inflammation	Acute, Marked
Liver		Hepatocellular Carcinoma	
		Necrosis	Marked
Note: CARCINOMA--CAUSE OF DEATH [Necrosis TGLS = 1-15]			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Penis		Necrosis	Marked
[Necrosis TGLS = 2-15.1]			
Prostate		Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Prepuce	Ulcer	Marked
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Reticulum Cell, Mild
Stomach	Glandular	Erosion	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5244

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: EROSION	TGLs = 3-6+15.2	Forestomach	Inflammation	Acute, Moderate
Urinary Bladder			Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5245

TRT#: 4

SEX: Male

DAY ON TEST: 454

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Nose	Nasolacrim Dct	Inflammation	Acute, Mild
Skin	Inguinal	Alopecia	Minimal
		Ulcer	Moderate
Note: ULCER IN PERIANAL SKIN			
Note: ALOPECIA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: MESENTERIC LYMPH NODE NORMAL

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5246

TRT#: 4

SEX: Male

DAY ON TEST: 393

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Kidney	Pelvis	Dilatation	Mild
Note: DILATATION TGLs = 1-12			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC LYMPH NODE NORMAL			
Preputial Gland		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 3-15			
Skin	Inguinal	Ulcer	Marked
Note: ULCER TGLs = 3-15			
Urinary Bladder		Ectasia	Mild
Note: ECTASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Animal Note: SEVERE AUTOLYSIS IN ALL TISSUES

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:10
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5247

TRT#: 4

SEX: Male

DAY ON TEST: 660

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hyperplasia	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Epididymis		Inflammation	Chronic Active, Mild
Intestine Large	Anus	Ulcer	Moderate
Kidney		Infiltration Cellular Lipoma Lymphoma Malignant Mixed	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Adenoma	
Note: ADENOMA--CAUSE OF DEATH			
Note: [HEPATOCLR ADEN] TGLs = 3-15.2			
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild Lymphoid, Mild
Note: REGIONAL L.N.--LYMPHOID HYPERPLASIA			
Nose	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Mild
[Inflammation TGLS = 2-15.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5247

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 660
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 1-15+15.1		
Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
Stomach	Forestomach	Hyperplasia	Squamous, Mild
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: HYPERPLASIA	TGLs = 6-15.4		
Urinary Bladder		Angiectasis	Mild
		Ectasia	Moderate
Note: ANGIECTASIS	TGLs = 5-5		
	[Angiectasis TGLS = 4-5]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5248

TRT#: 4

SEX: Male

DAY ON TEST: 571

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Nose
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Hemorrhage	Mild
Heart		Inflammation	Chronic, Moderate
Kidney	Pelvis	Dilatation	Moderate
		Inflammation	Acute, Marked

Note: INFLAMMATION TGLs = 2-12

Note: INFLAMMATION IS PROBABLE CAUSE OF DEATH

Note: DILATATION TGLs = 1-12

Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Spleen		Pigmentation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Calculus Gross Observation	
		Inflammation	Chronic, Marked

Note: CALCUS GRO OBS TGLs = 3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5249

TRT#: 4

SEX: Male

DAY ON TEST: 501

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 1-15			
Note: HEPATIC NEOPLASM IS PROBABLE CAUSE OF DEATH			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Prostate		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5250

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Liver
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Stomach - Forestomach	Testes	Thymus	Trachea

MISSING

Mammary Gland	Nose
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Lymphoma Malignant Mixed	
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Mild
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 1-1			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Stomach	Glandular, Mucosa	Dilatation	Minimal
Note: SECT. ADEQUETE. NO RECUT OR RETRIM NEEDED			
Thyroid Gland	Follicle	Dilatation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5251

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mandibular
Pituitary Gland	Prostate	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
Lung	Renal Tubule	Regeneration Hemorrhage Infiltration Cellular	Mild Mild Lymphocyte, Mild
Lymph Node	Mesenteric Mesenteric	Congestion Hyperplasia	Mild Lymphoid, Mild
Nose	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head	Inflammation	Acute, Mild
Spleen		Pigmentation	Minimal
Stomach	Forestomach	Hyperplasia	Squamous, Mild

[Hyperplasia TGLS = 1-15]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5252

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Skin	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Intestine Small	Ileum	Amyloid Deposition	Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Necrosis	Moderate
Note: ADENOMA--SLIDE 11 [Hepatocellular Carcinoma TGLS = 1-15.1]			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Stomach	Glandular, Mucosa	Dilatation	Mild
	Forestomach	Hyperplasia	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5252

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach

Squamous Cell Papilloma

Note: HYPERPLASIA TGLs = 2-15

Note: SQ CL PAPILLOM TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5253

TRT#: 4

SEX: Male

DAY ON TEST: 639

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Harderian Gland		Adenoma	
[Adenoma TGLS = 1-15]			
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Mild
	Nasolacrim Dct	Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Seminal Vesicle		Inflammation	Chronic, Marked
[Inflammation TGLS = 2-15]			
Skin	Head, Subcut Tiss	Granuloma	Moderate
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5253

TRT#: 4

SEX: Male

DAY ON TEST: 639

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5254

TRT#: 4

SEX: Male

DAY ON TEST: 607

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Lymph Node - Mandibular	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic, Mild
Intest Small			
Note: SEVERE AUTOLYSIS			
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: CONGESTION TGLs = 4-4			
Nose	Olfactory Epi	Degeneration	Mild
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15]			
Prostate		Inflammation	Acute, Moderate
Seminal Vesicle		Dilatation	Marked
[Dilatation TGLS = 5-15]			
Skin	Abdominal, Thoracic	Alopecia	Moderate
	Neck, Subcut Tiss	Hemangioma	
	Scrotal	Inflammation	Acute, Moderate
[Alopecia TGLS = 3-15]			
[Hemangioma TGLS = 7-15]			
[Inflammation TGLS = 2-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5254	TRT#: 4 DOSE: 120 PPM	SEX: Male DISP: Dead	DAY ON TEST: 607 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
Stomach	Glandular	Erosion	Mild
Note: EROSION	TGLs = 6-6		

PRIMARY CAUSE OF DEATH -
Animal Note: SEVERE AUTOLYSIS IN ALL TISSUES
Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5255

TRT#: 4

SEX: Male

DAY ON TEST: 443

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Pelvis	Dilatation	Mild
	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Mild
Note: DILATATION	TGLs = 1-12		
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC LYMPH NODE NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Preputial Gland		Inflammation	Chronic Active, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked
Note: ULCER	TGLs = 2-15		
Note: ULCER	TGLs = 3-15		
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5255

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 443
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5256

TRT#: 4

SEX: Male

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Intestine Large	Anus	Inflammation	Chronic Active, Moderate
	Anus	Ulcer	Moderate
Kidney	Renal Tubule	Casts Protein	Minimal
	Cortex	Cyst	
	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Regeneration	Mild
[Cyst TGLs = 1-12+15]			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Minimal
Penis		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 2-15.1			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skeletal Muscle	Head	Inflammation	Acute, Marked
Skin	Prepuce	Ulcer	Marked
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Stomach	Forestomach	Hyperplasia	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5256

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 3-15.2

Thyroid Gland
Tooth

Follicle
Pulp

Hyperplasia
Inflammation

Moderate
Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5257

TRT#: 4

SEX: Male

DAY ON TEST: 556

DOSE: 120 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla	Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Rectum	Hemorrhage	Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Mineralization	Minimal
Liver		Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST	TGLs = 4-11		
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Lymphoma Malignant Histiocytic	
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST	TGLs = 1,2-12		

PRIMARY CAUSE OF DEATH

-

Animal Note: MALIGNANT LYMPHOMA IS PROBABLE CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5258

TRT#: 4

SEX: Male

DAY ON TEST: 577

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Nose	Parathyroid Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Pelvis	Dilatation	Marked
	Pelvis	Hemorrhage	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION TGLs = 2-12			
Lung		Congestion	Moderate
		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: CONGESTION TGLs = 3-4			
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Penis		Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 1-15			
[Inflammation TGLS = 1-15]			
Pituitary Gland	Pars Distalis	Cyst	Minimal
Skin	Prepuce	Ulcer	Moderate
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5258

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 577
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Infiltration Cellular

Lymphocyte, Minimal

Note: ECTASIA TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5259

TRT#: 4

SEX: Male

DAY ON TEST: 526

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Pancreas	Parathyroid Gland
Penis	Pituitary Gland	Seminal Vesicle	Stomach - Forestomach
Thymus	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Inflammation	Acute, Mild
Liver		Hepatocellular Carcinoma	
		Necrosis	Moderate
Note: HEPATOCLR CARC TGLs = 3-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hemorrhage	Moderate
Note: REGIONAL LYMPH NODE NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Prostate		Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 2-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild
Testes		Atrophy	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
Urethra		Calculus Micro Observation Only	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5259

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Dead

DAY ON TEST: 526
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder	Bulboureth GI	Inflammation Infiltration Cellular Inflammation	Acute, Mild Lymphocyte, Mild Acute, Minimal
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PRIMARY CAUSE OF DEATH

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Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5260

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Pituitary Gland	Prostate	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Mild
Nose	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Penis		Inflammation	Acute, Marked
		[Inflammation TGLS = 1-15]	
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Prepuce	Ulcer	Marked
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5261

TRT#: 4

SEX: Male

DAY ON TEST: 525

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Pituitary Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma	
Note: REGIONAL LYMPH NODE AUTOLYSED			
Note: PROBABLE CAUSE OF DEATH			
Note: [HEPATOCLR ADEN] TGLs = 4-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Inguinal	Ulcer	Marked
[Ulcer TGLS = 1-15.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Atrophy	Mild
Note: ATROPHY TGLs = 3-5.1			
Urinary Bladder		Inflammation	Acute, Mild
[Inflammation TGLS = 2-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5262

TRT#: 4

SEX: Male

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Pituitary Gland
Skin	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Epididymis		Lymphoma Malignant Histiocytic	
Kidney	Cortex Renal Tubule Renal Tubule Renal Tubule	Cyst Dilatation Infiltration Cellular Necrosis Regeneration	 Minimal Lymphocyte, Mild Minimal Mild
Liver		Lymphoma Malignant Histiocytic	
	[Lymphoma Malignant Histiocytic TGLS = 1-11]		
Lung		Lymphoma Malignant Histiocytic	
Lymph Node	Mandibular Mesenteric Mesenteric	Hyperplasia Hyperplasia Inflammation	Lymphoid, Mild Lymphoid, Mild Acute, Mild
Prostate		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Histiocytic	Mild
Stomach	Forestomach Glandular	Hyperplasia Infiltration Cellular	Squamous, Mild Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5262	TRT#: 4 DOSE: 120 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: HYPERPLASIA TGLs = 3-6+15	Forestomach	Inflammation	Acute, Mild
Testes		Atrophy	Moderate
Note: ATROPHY TGLs = 2-5.1			
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:10
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5263 TRT#: 4 SEX: Male DAY ON TEST: 729
 DOSE: 120 PPM DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Lymphoma Malignant Mixed Pigmentation	Mild Mild
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Bone Marrow	Myeloid Cell	Hyperplasia Lymphoma Malignant Mixed	Mild
Brain		Hemorrhage Mineralization	Minimal Moderate
Gallbladder		Lymphoma Malignant Mixed	
Kidney	Renal Tubule	Dilatation Lymphoma Malignant Mixed	Mild
Liver		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 2-11+15,3-11+15]			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Axillary Iliac Mandibular Mediastinal Mesenteric Renal	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	

Note: LYMPH MAL MIXD TGLs = 4-1,5-15.6,6-15.2,7-15.1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5263

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL MIXD TGLs = 8-15.3,9-15.5,10-15.4

Note: LYMPH MAL-HEPATIC & PREFEM. L.N.

Nose	Nasolacrim Dct	Hemorrhage	Mild
Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 1-12]			
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Hyperplasia	Minimal
Tooth	Peridont Tiss	Inflammation	Chronic Active, Moderate
Urinary Bladder		Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5264

TRT#: 4

SEX: Male

DAY ON TEST: 716

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
		Necrosis	Minimal
Note: ADENOMA IN SLIDE 11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HEPATIC L.N. ALSO HYPERPLASTIC			
Nose	Lumen	Hemorrhage	Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15]			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Prepuce	Ulcer	Marked
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5264

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 716
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Hyperplasia Infiltration Cellular	Lymphoid, Mild Lymphocyte, Minimal
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5265

TRT#: 4

SEX: Male

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
Liver	Renal Tubule	Regeneration	Mild
		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
Note: BASOPH FOCUS	TGLs = 2-15		
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5265	TRT#: 4 DOSE: 120 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 1-15.1]

Preputial Gland		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Atrophy	Mild
		Mineralization	Moderate
Thyroid Gland	Follicle	Adenoma	
Trachea	Glands	Inflammation	Acute, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5266

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Pancreas	Pituitary Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Necrosis	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-1			
Note: MAL. LYMPH.--CAUSE OF DEATH			
Nose	Lumen	Hemorrhage	Mild
Penis		Inflammation	Acute, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head	Abscess	Moderate
	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Dilatation	Mild
	Follicle	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5266

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 724
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urethra	Calculus Micro Observation Only
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5267

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Skin	Spleen	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Testes		Atrophy	Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5268 **TRT#:** 4 **SEX:** Male **DAY ON TEST:** 731
DOSE: 120 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Minimal Minimal
	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular Mesenteric	Congestion Hyperplasia Hyperplasia	Mild Lymphoid, Mild Lymphoid, Mild
Nose	Mucosa	Inflammation	Acute, Minimal
Prostate		Inflammation	Chronic, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa Glandular	Dilatation Inflammation	Minimal Acute, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5268

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5269

TRT#: 4

SEX: Male

DAY ON TEST: 531

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Gallbladder	Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Minimal
Kidney	Renal Tubule	Casts Protein	Mild
	Renal Tubule	Hyperplasia	Mild
Liver	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Mild
		Infarct	Mild
		Inflammation	Acute, Minimal
		Necrosis	Mild

Note: SEVERE AUTOLYSIS.

Note: REGIONAL LYMPH NODE NOT EXAMINED.

Note: [INFARCT] TGLs = 1-15

Lung		Infiltration Cellular	Lymphocyte, Minimal
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild
Thymus		Congestion	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5270

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Nose	Pancreas	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa	Dilatation	Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5271

TRT#: 4

SEX: Male

DAY ON TEST: 593

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea		

MISSING

Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
		Lymphoma Malignant Mixed	
[Hepatocellular Carcinoma TGLS = 4-15.1]			
Lung		Infiltration Cellular	Lymphocyte, Mild
		Lymphoma Malignant Mixed	
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Mild
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPHOID HYPERPLASIA IN REGIONAL L.N. TGL 5-15.2			
Note: LYMPH MAL MIXD TGLs = 6-1			
[Lymphoma Malignant Mixed TGLS = 5-15.2]			
Nose	Lumen	Hemorrhage	Mild
	Vomeronas Org	Inflammation	Acute, Minimal
Penis		Abscess	Marked
[Abscess TGLS = 2-15.3]			
Prostate		Inflammation	Acute, Marked
Skin		Alopecia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5271	TRT#: 4 DOSE: 120 PPM	SEX: Male DISP: Dead	DAY ON TEST: 593 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Alopecia TGLS = 1-15]		Inflammation	Chronic, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Inflammation	Acute, Moderate
Note: INFLAMMATION	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

Animal Note: MAL. LYMPHOMA &HEPATOCELL. CA. CAUSED DEATH.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5272

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Prostate	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Brain		Mineralization	Mild
Epididymis		Infiltration Cellular	Lymphocyte, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
Liver		Regeneration	Mild
Lung		Hematopoietic Cell Proliferation	Minimal
	Interstitialium	Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Inflammation	Acute, Minimal
Note: MESENTERIC L.N. NORMAL		Hyperplasia	Lymphoid, Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Tail	Ulcer	Marked
Note: TAIL APPARENTLY SEVERED ANTE MORTEM [Ulcer TGLS = 1-15]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5272

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5273

TRT#: 4

SEX: Male

DAY ON TEST: 611

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Nose	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Iliac	Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 4-1			
Note: HYPERPLASIA TGLs = 4-1			
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Penis		Inflammation	Acute, Marked
[Inflammation TGLS = 1-15]			
Prostate		Inflammation	Acute, Moderate
Skin	Scrotal	Ulcer	Marked
[Ulcer TGLS = 2-15.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Ectasia	Mild
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5273

TRT#: 4

SEX: Male

DAY ON TEST: 611

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-5]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5274

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Liver		Hepatocellular Adenoma	
Note: SECOND ADENOMA--SLIDE 11 [Hepatocellular Adenoma TGLS = 1-15]			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5274

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5275

TRT#: 4

SEX: Male

DAY ON TEST: 639

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Moderate
Note: [HYPERPLASIA] TGLs = 5-15.3			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Iliac	Hyperplasia	Lymphoid, Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 6-15.4]			
Nose	Lumen	Hemorrhage	Mild
Penis		Abscess	Marked
[Abscess TGLS = 1-15.1]			
Prostate		Inflammation	Acute, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
[Alopecia TGLS = 2-15]			
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5275

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 639
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus Note: THYMIC TISSUE PRESENT IN SLIDE 2A. Note: BLOCK 15.2 DERIVED FROM WT SEARCH FOR THYMUS	Pigmentation	Minimal
Urethra Note: TISSUE IN SLIDE 6A.	Inflammation	Acute, Marked
Urinary Bladder Note: CONGESTION TGLs = 4-5 Note: INFLAMMATION TGLs = 4-5	Congestion Inflammation	Mild Acute, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5276

TRT#: 4

SEX: Male

DAY ON TEST: 435

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
[Congestion TGLS = 3-4]			
Lymph Node			
Note: MESENTERIC LYMPH NOT FOUND AT TRIMMING.			
Prostate		Inflammation	Acute, Moderate
Urinary Bladder		Ectasia	Mild
[Ectasia TGLS = 1-5]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

Animal Note: MODERATE TO SEVERE AUTOLYSIS IN ALL TISSUES.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5277

TRT#: 4

SEX: Male

DAY ON TEST: 416

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	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	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion	Moderate
[Congestion TGLS = 1-4]			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Mucosa	Inflammation	Acute, Minimal
Skin	Subcut Tiss	Inflammation	Acute, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Hyperplasia	Lymphoid, Mild
Urethra		Calculus Micro Observation Only	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5278

TRT#: 4

SEX: Male

DAY ON TEST: 155

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urethra	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Preputial Gland		Inflammation	Chronic, Mild
Spleen		Congestion	Mild
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5279 **TRT#:** 4 **SEX:** Male **DAY ON TEST:** 611
DOSE: 120 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Intestine Large	Rectum	Ulcer	Marked
Kidney	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
		Inflammation	Chronic, Moderate
Note: HEPATOCLR CARC TGLs = 3-15			
Note: CARCINOMA IS PROBABLE CAUSE OF DEATH.			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Minimal
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: REGIONAL NOT PRESENT IN SLIDE 15.1.			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal
Skin	Prepuce	Ulcer	Marked
	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5279

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 611
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 2-15.3]

Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Atrophy	Moderate
Note: ATROPHY	TGLs = 4-5.1		
Thyroid Gland	Follicle	Adenoma	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:10
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5280 **TRT#:** 4 **SEX:** Male **DAY ON TEST:** 730
DOSE: 120 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Stomach - Forestomach	Testes	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Lymphoma Malignant Mixed Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Intestine Small	Jejunum	Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 2-15]		
Kidney		Lymphoma Malignant Mixed Regeneration	Mild
Liver	Renal Tubule	Hematopoietic Cell Proliferation Hepatocellular Adenoma Infiltration Cellular	Minimal Lymphocyte, Mild
	Note: HEPATOCLR ADEN TGLs = 3-15.2		
Lung		Alveolar/Bronchiolar Adenoma Alveolar/Bronchiolar Carcinoma Lymphoma Malignant Mixed	
	Note: ALV BRON ADEN TGLs = 4-15.3		
	Note: CARCINOMA--SLIDE 4		
Lymph Node	Mandibular Mediastinal Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5280

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL MIXD TGLs = 1-1,5-15.1

Nose	Olfactory Epi	Degeneration	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5281

TRT#: 4

SEX: Male

DAY ON TEST: 498

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Liver	Nose	Pancreas	Pituitary Gland
Prostate	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head, Subcut Tiss	Abscess	Moderate
	Prepuce	Ulcer	Moderate
Note: ULCER	TGLs = 1-15.1		
Note: ABSCESS IN SLIDE 14-B			
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5282

TRT#: 4

SEX: Male

DAY ON TEST: 400

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Nose	Pancreas	Pituitary Gland	Prostate
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland	Stomach - Forestomach
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Esophagus		Inflammation	Chronic, Mild
Harderian Gland		Adenoma	
Note: ADENOMA IN SLIDE 14-C			
Kidney	Pelvis	Dilatation	Mild
Note: DILATATION TGLs = 4-12		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-15.1		Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA-PREFEMORAL L.N. IS GROSS LESION NO. 2			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Acute, Moderate
	Scrotal	Ulcer	Marked
Note: ULCER TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5282

TRT#: 4
DOSE: 120 PPM

SEX: Male
DISP: Moribund

DAY ON TEST: 400
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: EROSION TGLs = 3-6

Urethra

Urinary Bladder

Calculus Micro Observation Only

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CASUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5283

TRT#: 4

SEX: Male

DAY ON TEST: 388

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Lymph Node - Mandibular	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Inflammation	Acute, Minimal
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-12			
Note: INFLAMMATION IS PROBABLE CAUSE OF DEATH			
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC LYMPH NODE NORMAL			
Nose	Lumen	Hemorrhage	Moderate
Pancreas		Inflammation	Acute, Moderate
Prostate		Inflammation	Chronic, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Urinary Bladder		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5284 **TRT#:** 4 **SEX:** Male **DAY ON TEST:** 633
DOSE: 120 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

MISSING

Lymph Node - Mandibular Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Harderian Gland		Adenoma	
Note: ADENOMA TGLs = 1-15			
Kidney	Renal Tubule	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Mild
Lung		Hemorrhage	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Nasolacrim Dct	Inflammation	Acute, Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Testes		Atrophy	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5284

TRT#: 4

SEX: Male

DAY ON TEST: 633

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4926 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 729
DOSE: 0 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Thymus	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Hypertrophy Pigmentation	Mild Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Minimal Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST TGLs = 3-5			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Marked Minimal
Note: [HYPERPLASIA] TGLs = 1-12			
Stomach	Glandular, Mucosa	Dilatation	Minimal
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4926

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Uterus

Note: HYPERPLASIA TGLs = 2-5

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4927

TRT#: 5

SEX: Female

DAY ON TEST: 624

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood	Blood Vessel
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
Liver	Lymph Node - Mandibular	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Mild
		Lymphoma Malignant Mixed	
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA	TGLs = 3-15,5-15.1		
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Ovary		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 7-5		
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Note: BLOCKS 2.1 + 3			
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4927

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 624
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia
Lymphoma Malignant Mixed

Cystic, Mild

Note: HYPERPLASIA TGLs = 6-5
[Hyperplasia TGLS = 4-5]

PRIMARY CAUSE OF DEATH

-

Animal Note: MALIG. LYMPHOMA IS CAUSE OF DEATH

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4928

TRT#: 5

SEX: Female

DAY ON TEST: 716

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Esophagus	Gallbladder	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Ovary	Skin
Thymus	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Moderate
		Inflammation	Chronic Active, Mild
Intestine Large	Anorectal Jct	Inflammation	Acute, Moderate
	Cecum	Inflammation	Acute, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Moderate
		Necrosis	Mild
Note: HEMA CELL PROL TGLs = 2-11 [Hematopoietic Cell Proliferation TGLS = 5-11]			
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Interstitium	Inflammation	Acute, Minimal
Lymph Node	Mesenteric	Inflammation	Acute, Moderate
Mammary Gland		Adenocarcinoma	
Note: CAUSE OF DEATH [Adenocarcinoma TGLS = 3-15]			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
	Mucosa	Inflammation	Acute, Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4928

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 716
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 1-12]			
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thyroid Gland	Follicle	Hyperplasia	Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4929

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow		Fibrosis	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
Liver	Renal Tubule	Regeneration	Minimal
		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Periovarn Tiss	Cyst	
Ovary			
Note: CYST	TGLs = 2-5		
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	Note: [HYPERPLASIA]		TGLs = 3-1
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4929

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Mucosa	Dilatation	Mild
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Marked
Note: HYPERPLASIA TGLs = 1-15+5			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4930

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Pancreas	Parathyroid Gland
Skin	Stomach - Forestomach	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Mild
	Myeloid Cell	Hyperplasia	Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Moderate
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Mild
Liver		Hepatocellular Adenoma	
Note: [HEPATOCLR ADEN] TGLs = 1-15			
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
		Lymphoma Malignant Mixed	
Note: REGIONAL L.N.			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-1			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4930

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation Inflammation Lymphoma Malignant Mixed Pigmentation	Mild Chronic, Mild
Stomach	Glandular	Infiltration Cellular Lymphoma Malignant Mixed	Mild Lymphocyte, Mild
Thymus	Follicle	Dilatation	Moderate
Thyroid Gland	Follicle	Hyperplasia	Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4932

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Brain		Mineralization	Mild
Intestine Small	Ileum	Amyloid Deposition	Moderate
Kidney		Lymphoma Malignant Mixed Metaplasia	Osseous, Minimal
Liver		Hematopoietic Cell Proliferation Infiltration Cellular	Mild Lymphocyte, Minimal
Lung		Lymphoma Malignant Mixed Mineralization	Mild
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-1			
Mesentery		Lymphoma Malignant Mixed	
Note: SLIDE 5			
Nose	Olfactory Epi	Degeneration	Mild
Pancreas	Acinus	Atrophy Lymphoma Malignant Mixed	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hemangiosarcoma Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4932

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemangiosarcoma TGLS = 2-12+15] [Lymphoma Malignant Mixed TGLS = 1-12+15]		Lymphoma Malignant Mixed Pigmentation	Minimal
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Dilatation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4934

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 716
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Ovary	Salivary Glands	Stomach - Forestomach	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Lymphoma Malignant Mixed Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Gallbladder		Lymphoma Malignant Mixed	
Heart		Inflammation	Chronic, Minimal
Kidney		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-12			
Liver		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
Note: LYMPH MAL MIXD TGLs = 2-11			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-1,5-15+15.1+7			
Note: LYMPH. MAL. IN S.Q. & HEPATIC L.N.'S.			
Note: CAUSE OF DEATH			
Mesentery		Lymphoma Malignant Mixed	
Note: SLIDE 5			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4934	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 716 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin		Alopecia	Mild
Note: ALOPECIA	TGLs = 6-7		
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 1-12		
Stomach	Glandular	Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Dilatation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:10
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4935 TRT#: 5 SEX: Female DAY ON TEST: 731
 DOSE: 0 PPM DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
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	Ovary
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Dilatation Lymphoma Malignant Mixed Metaplasia	Minimal Osseous, Moderate
Liver		Basophilic Focus Hematopoietic Cell Proliferation	Mild
Lung	Alveolus	Infiltration Cellular Infiltration Cellular	Histiocyte, Minimal Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia Inflammation	Lymphoid, Mild Lymphoid, Mild Acute, Mild
Note: ACUTE INFLAM.--REGIONAL L.N. Note: INFLAMMATION TGLs = 2-15.1			
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Minimal Minimal
Pancreas	Acinus	Atrophy	Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Moderate Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4935

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	

Note: ALSO ACUTE INFLAMMATION
Note: POLYP STROMAL TGLs = 1-15
Note: CONTAINS SQ, METAPLASIA

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4936

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Mammary Gland	Ovary	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Brain		Infiltration Cellular Mineralization	Lymphocyte, Minimal Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Renal Tubule Renal Tubule Renal Tubule	Casts Protein Dilatation Infiltration Cellular Regeneration	Minimal Minimal Lymphocyte, Mild Minimal
Liver		Hematopoietic Cell Proliferation Infiltration Cellular Infiltration Cellular	Minimal Lymphocyte, Minimal Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4936

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicle	Hyperplasia	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Marked

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4937

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Ovary	Pituitary Gland	Skin	Stomach - Forestomach
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Blood Vessel		Lymphoma Malignant Lymphocytic	
Bone Marrow		Fibrosis	Moderate
	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Minimal Minimal
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant Lymphocytic	
Lung		Lymphoma Malignant Lymphocytic	
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic	
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Lymphoma Malignant Lymphocytic	
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4937	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach	Glandular, Mucosa Glandular	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
Note: SECTION ADEQUETE--NO RECUT NEEDED			
Thymus		Lymphoma Malignant Lymphocytic	
Urinary Bladder		Lymphoma Malignant Lymphocytic	
Uterus	Endometrium	Hyperplasia Lymphoma Malignant Lymphocytic	Cystic, Moderate
Note: HYPERPLASIA TGLs = 1-5			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4938

TRT#: 5

SEX: Female

DAY ON TEST: 722

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Mammary Gland
Ovary	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland Note: RECUT FOR MEDULLA	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney Note: DILATATION TGLs = 8-12	Pelvis	Dilatation Lymphoma Malignant Mixed	Mild
Liver		Lymphoma Malignant Mixed	
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Minimal
	Axillary	Lymphoma Malignant Mixed	
	Iliac	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-15 Note: LYMPH MAL MIXD TGLs = 2-1 Note: LYMPH MAL MIXD TGLs = 4-15.1 Note: LYMPH MAL MIXD TGLs = 5-15.2 Note: LYMPH MAL MIXD ALSO S.Q. L.N. Note: LYMPH MAL MIXD TGLs = 6-15.3			
Mesentery Note: SLIDE 5		Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4938

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 722
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Moderate
Note: ALOPECIA	TGLs = 7-7		
Spleen		Lymphoma Malignant Mixed	
Note: CAUSE OF DEATH			
Note: LYMPH MAL MIXD	TGLs = 1-12		
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS DIGESTIVE TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4940

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Parathyroid Gland	Skin
Stomach - Forestomach	Thymus	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow		Fibrosis	Marked
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Hyperplasia	Lymphoid, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Hyperplasia	Lymphoid, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia	Mild Lymphoid, Moderate
		Pigmentation	Mild
Stomach	Glandular	Inflammation	Acute, Mild
Thyroid Gland	Follicle	Dilatation Infiltration Cellular	Mild Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4940

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Uterus

[Hyperplasia TGLS = 1-5]

Endometrium

Hyperplasia

Hyperplasia

Lymphoid, Mild

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4941

TRT#: 5

SEX: Female

DAY ON TEST: 634

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Gallbladder	Lymph Node - Mandibular
-------------	-------------------------

AUTO PRECLUDES DIAG.

Liver

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Gallbladder			
Note: WET TISSUE SEARCH			
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC NORMAL			
Note: WET TISSUE SEARCH FOR MANDIBULAR L.N.			
Nose	Olfactory Epi	Degeneration	Mild
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 4-15			

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN ALL TISSUES

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4942

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Skin

Stomach - Forestomach

Thymus

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Angiectasis

Minimal

Fibrosis

Moderate

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Infiltration Cellular

Lymphocyte, Minimal

Liver

Infiltration Cellular

Lymphocyte, Minimal

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Moderate

Mesenteric

Hyperplasia

Lymphoid, Minimal

Nose

Olfactory Epi

Degeneration

Mild

Respirat Epith

Degeneration

Minimal

Lumen

Hemorrhage

Minimal

Periovarn Tiss

Cyst

Ovary

Note: CYST

TGLs = 2-5

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Hematopoietic Cell Proliferation

Mild

Hyperplasia

Lymphoid, Moderate

Pigmentation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4942

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thyroid Gland	Follicle	Dilatation	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4943

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation Mineralization	Mild Mild Mild
Brain		Infiltration Cellular	Lymphocyte, Mild
Gallbladder		Dilatation	Minimal
Kidney	Renal Tubule	Infiltration Cellular Hepatocellular Carcinoma Lymphoma Malignant Mixed Thrombosis	Lymphocyte, Mild
Liver			
Note: LYMPH MAL MIXD TGLs = 6-11+15.3			
Note: HEPATOCLR CARC TGLs = 5-15.3			
Note: THROMBUS TGLs = 5-15.3			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mesenteric Mandibular Mediastinal	Angiectasis Lymphoma Malignant Mixed Lymphoma Malignant Mixed	Moderate
Note: LYMPH MAL MIXD TGLs = 2-15.1			
Note: TGL NO. FOR MEDISTINAL L.N.			
Nose	Olfactory Epi	Degeneration	Mild
Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Mild Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4943	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL MIXD	TGLs = 4-12+15.2		
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Adenocarcinoma	
	Follicle	Dilatation	Mild
Note: ADENOCARC	TGLs = 1-15		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Marked
Note: HYPERPLASIA	TGLs = 3-5		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4945 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 729
DOSE: 0 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	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	Ovary	Parathyroid Gland	Skin
Stomach - Glandular	Thymus	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Medulla	Hyperplasia	Moderate
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Minimal
	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Minimal
[Hyperplasia TGLS = 1-12]			
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Mild
Thyroid Gland	Follicle	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4945	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4946

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Skin	Stomach - Glandular
Thymus	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation Infiltration Cellular Metaplasia	Minimal Lymphocyte, Mild Osseous, Mild
Liver		Hematopoietic Cell Proliferation Infiltration Cellular	Minimal Lymphocyte, Mild
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Moderate Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Ovary	Periovarn Tiss	Cyst	
[Cyst TGLS = 1-5]			
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Moderate Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4946

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach Note: HYPERKERATOSIS TGLs = 2-6+15	Forestomach	Hyperkeratosis	Mild
Thyroid Gland	Follicle	Hyperplasia Infiltration Cellular	Mild Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4947

TRT#: 5

SEX: Female

DAY ON TEST: 375

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 3-15.1		
Nose	Olfactory Epi	Degeneration	Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST	TGLs = 2-5		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Pigmentation	Mild
Stomach	Glandular	Ulcer	Moderate
Note: ULCER	TGLs = 1-15		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4948

TRT#: 5

SEX: Female

DAY ON TEST: 710

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Trachea	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain	Ventricle	Dilatation	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule Renal Tubule Renal Tubule	Casts Protein Dilatation Infiltration Cellular Regeneration	Minimal Minimal Lymphocyte, Mild Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-1			
Note: CAUSE OF DEATH			
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 1-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4948	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 710 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
Stomach	Forestomach Glandular Forestomach	Infiltration Cellular Infiltration Cellular Ulcer	Lymphocyte, Mild Lymphocyte, Mild Moderate
Thymus Note: RECUT REQUESTED			
Thyroid Gland	Follicle	Dilatation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4949

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Brain		Hemorrhage Mineralization	Minimal Mild
Kidney	Renal Tubule	Dilatation Lymphoma Malignant Mixed	Minimal Minimal
Liver		Hematopoietic Cell Proliferation Infiltration Cellular	Minimal Lymphocyte, Minimal
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-1			
Nose	Olfactory Epi Lumen Mucosa	Degeneration Hemorrhage Inflammation	Mild Mild Acute, Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Mild Minimal Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4949

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant Mixed TGLS = 1-12]

Stomach	Glandular, Mucosa Glandular	Dilatation Infiltration Cellular	Minimal Lymphocyte, Minimal
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

Note: HYPERPLASIA TGLs = 3-5+15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:10
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4950

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Parathyroid Gland	Skin	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Moderate
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Rectum	Inflammation	Acute, Mild
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Minimal Minimal
	Renal Tubule	Lymphoma Malignant Mixed Regeneration	Minimal Minimal
Liver		Hematopoietic Cell Proliferation Infiltration Cellular	Minimal Lymphocyte, Mild
Lung		Congestion Lymphoma Malignant Mixed	Mild
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Lymphoma Malignant Mixed	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4950

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

		Pigmentation	Minimal
[Hematopoietic Cell Proliferation TGLS = 1-12]			
Stomach	Forestomach	Lymphoma Malignant Mixed	
	Glandular	Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:10
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4951 TRT#: 5 SEX: Female DAY ON TEST: 733
 DOSE: 0 PPM DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Parathyroid Gland	Pituitary Gland	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Brain		Infiltration Cellular Mineralization	Lymphocyte, Mild Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Inflammation	Chronic, Minimal
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Minimal Minimal
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Mammary Gland		Ectasia	Minimal
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Inflammation	Acute, Minimal
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4951	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach Note: SQ CL PAPILLOM TGLs = 2-15.1	Forestomach Glandular Forestomach	Infiltration Cellular Infiltration Cellular Squamous Cell Papilloma	Lymphocyte, Minimal Lymphocyte, Mild
Thymus Urinary Bladder Uterus Note: HYPERPLASIA TGLs = 1-5+15	Endometrium	Hyperplasia Infiltration Cellular Hyperplasia	Lymphoid, Mild Lymphocyte, Mild Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4952

TRT#: 5

SEX: Female

DAY ON TEST: 709

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Thyroid Gland

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

Blood Vessel
Gallbladder
Intestine Small - Duodenum
Mammary Gland

Bone
Heart
Intestine Small - Ileum
Pituitary Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Note: RECUT REQUESTED

Capsule, Spindle Cell

Hyperplasia

Moderate

Bone Marrow
Intestine Large
Kidney

Myeloid Cell
Cecum

Hyperplasia
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Metaplasia

Mild

Osseous, Mild

Liver
Lung
Lymph Node

Bronchial
Iliac
Mandibular
Mediastinal
Mesenteric
Renal

Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed

Note: CAUSE OF DEATH

Note: LYMPH MAL MIXD TGLs = 10-15.4

Note: HEPATIC

Note: LYMPH MAL MIXD TGLs = 9-15.3

Note: LYMPH MAL MIXD TGLs = 5-15.2

Note: LYMPH MAL MIXD TGLs = 8-15.1

Note: LYMPH MAL MIXD TGLs = 6-15

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4952	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Dead	DAY ON TEST: 709 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant Mixed TGLS = 7-1]			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Ovary		Lymphoma Malignant Mixed	
Pancreas		Lymphoma Malignant Mixed	
Salivary Glands		Lymphoma Malignant Mixed	
Skin		Alopecia	Moderate
Note: ALOPECIA	TGLs = 1-7		
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
Note: LYMPH MAL MIXD	TGLs = 3-12		
Stomach	Forestomach Glandular	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 13-6		
Note: LYMPH MAL MIXD	TGLs = 13-6		
Thymus		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 2-3		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4953

TRT#: 5

SEX: Female

DAY ON TEST: 631

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	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	Ovary	Pancreas	Pituitary Gland
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Vagina			

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Parathyroid Gland	
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OBSERVATIONS

Adrenal Gland			
Note: WET TISSUE SEARCH FOR CORTEX AND MEDULLA			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Kidney	Pelvis	Dilatation	Moderate
	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Note: DILATATION TGLs = 1-12			
Liver		Hepatocellular Carcinoma	
		Infiltration Cellular	Lymphocyte, Mild
		Necrosis	Mild
Note: HEPATOCLR CARC TGLs = 3-15.1			
Note: CAUSE OF DEATH			
Lung	Peribronchiolr	Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-4			
Note: INFLAMMATION TGLs = 2-15			
Note: CAUSE OF DEATH			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Minimal
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Mild
Note: BLOCK 12			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4953

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 631
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Subcut Tiss	Hemorrhage	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild
Note: EROSION	TGLs = 5-6		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4954

TRT#: 5

SEX: Female

DAY ON TEST: 636

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Parathyroid Gland
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Lymphoma Malignant Mixed	
		Mineralization	Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
Liver		Regeneration	Mild
		Hepatocellular Carcinoma	
		Necrosis	Mild
Note: CAUSE OF DEATH			
[Hepatocellular Carcinoma TGLS = 2-15.1]			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Degeneration	Moderate
	Turbinates	Inflammation	Acute, Mild
Ovary		Lymphoma Malignant Mixed	
Pancreas	Acinus	Atrophy	Marked
	Duct	Cyst	
		Inflammation	Chronic Active, Moderate
Note: CYST	TGLs = 4-6.1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4954

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 636
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head	Ulcer	Moderate
Note: SLIDE 14A			
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Note: LYMPH MAL MIXD TGLs = 1-15			
Thymus		Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4955

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Islets, Pancreatic

Pancreas

Skin

Stomach - Forestomach

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Minimal

Lymphoma Malignant Mixed

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Minimal

Intestine Small

Jejunum

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 3-15.1

Kidney

Renal Tubule

Casts Protein

Minimal

Renal Tubule

Dilatation

Minimal

Infiltration Cellular

Lymphocyte, Mild

Liver

Fatty Change

Mild

Hematopoietic Cell Proliferation

Mild

Hepatocellular Adenoma

Infarct

Mild

Necrosis

Marked

Note: HEPATOCLR ADEN TGLs = 5-15.3

Note: NECROSIS TGLs = 4-15.2

Lung

Hemorrhage

Mild

Alveolar Epith

Hyperplasia

Mild

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Iliac

Lymphoma Malignant Mixed

Mandibular

Lymphoma Malignant Mixed

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4955

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mediastinal	Lymphoma Malignant Mixed
Mesenteric	Lymphoma Malignant Mixed
Renal	Lymphoma Malignant Mixed

Note: LYMPH MAL ALSO IN HEPATIC L.N.

Note: LYMPH MAL MIXD TGLs = 9-15.8,10-15.9

Note: LYMPH MAL MIXD TGLs = 6-15.4,7-1+15.6,8-15.7

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi

Degeneration

Mild

Respirat Epith

Degeneration

Minimal

Lumen

Hemorrhage

Minimal

Periovarn Tiss

Cyst

Ovary

[Cyst TGLS = 12-5]

Pituitary Gland

Pars Distalis

Adenoma

Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

Spleen

Hematopoietic Cell Proliferation

Mild

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 1,2-12+15

Stomach

Glandular

Infiltration Cellular

Lymphocyte, Minimal

Thymus

Lymphoma Malignant Mixed

Thyroid Gland

Follicle

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 11-2

Urinary Bladder

Lymphoma Malignant Mixed

Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4956

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Pituitary Gland
Trachea

Blood Vessel
Heart
Intestine Small - Duodenum
Skin

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Stomach - Forestomach

Brain
Intestine Large - Colon
Islets, Pancreatic
Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex
Capsule, Spindle Cell

Cyst
Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Hyperplasia

Mild

Gallbladder

Lymphoma Malignant Mixed

Intestine Small

Jejunum

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 3-15

Kidney

Renal Tubule

Lymphoma Malignant Mixed
Regeneration

Minimal

Liver

Hepatocellular Adenoma
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed

Lung

Lymph Node

Mandibular
Mesenteric

Mammary Gland

Nose

Olfactory Epi
Respirat Epith
Lumen

Degeneration
Degeneration
Hemorrhage

Mild
Mild
Minimal
Mild

Ovary

Periovarn Tiss

Cyst

Note: CYST TGLs = 2-5

Pancreas

Salivary Glands

Infiltration Cellular
Infiltration Cellular

Lymphocyte, Mild
Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4956	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Mild Minimal
Stomach	Glandular	Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4957

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Pancreas	Parathyroid Gland
Skin	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Gallbladder		Hyperplasia	Lymphoid, Marked
Kidney	Renal Tubule Renal Tubule	Dilatation Hyperplasia Regeneration	Minimal Lymphoid, Marked Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Hemorrhage Hyperplasia	Mild Lymphoid, Marked
Lymph Node	Mandibular Mesenteric	Hemorrhage Hyperplasia Hyperplasia	Marked Lymphoid, Marked Lymphoid, Marked
[Hemorrhage TGLS = 1-1]			
Mammary Gland		Ectasia	Moderate
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
Salivary Glands		Lymphoma Malignant Histiocytic	
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4957	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular Glandular Forestomach	Hyperplasia Inflammation Squamous Cell Papilloma	Lymphoid, Marked Acute, Minimal
Note: [HYPERPLASIA] TGLs = 3-11+15			
Thymus		Hyperplasia	Lymphoid, Marked
Thyroid Gland	Follicle	Hyperplasia Hyperplasia	Moderate Lymphoid, Marked
Urinary Bladder		Hyperplasia Lymphoma Malignant Mixed	Lymphoid, Marked
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4958

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pancreas	Parathyroid Gland	Skin	Stomach - Glandular
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Brain		Mineralization	Mild
Gallbladder		Inflammation	Acute, Mild
Heart		Lymphoma Malignant Mixed Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Lymphoma Malignant Mixed	
Lung	Alveolar Epith Alveolus	Hyperplasia Infiltration Cellular Lymphoma Malignant Histiocytic Pigmentation	Mild Histiocyte, Mild Cholesterol, Mild
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Degeneration	Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST	TGLs = 2-5		
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild

[Hematopoietic Cell Proliferation TGLS = 1-12]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4958

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Lymphoma Malignant Mixed	
	Forestomach	Squamous Cell Papilloma	
Note: LYMPH MAL MIXD	TGLs = 3-6		
Note: SQ CL PAPILOM	TGLs = 3-15		
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4960

TRT#: 5

SEX: Female

DAY ON TEST: 653

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Ovary
Pancreas	Parathyroid Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow		Fibrosis	Moderate
	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Congestion	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-1			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Pigmentation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 1-5			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4962

TRT#: 5

SEX: Female

DAY ON TEST: 556

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
	Inguinal	Inflammation	Acute, Moderate
	Ventral	Inflammation	Chronic, Mild
Note: ALOPECIA TGLs = 3-15.1			
Note: INGUINAL BLOCK 6			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4963

TRT#: 5

SEX: Female

DAY ON TEST: 693

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Gallbladder
Lymph Node - Mandibular
Pituitary Gland
Trachea

Blood Vessel
Intestine Large - Colon
Mammary Gland
Skin

Bone
Intestine Large - Rectum
Pancreas
Stomach - Forestomach

Bone Marrow
Islets, Pancreatic
Parathyroid Gland
Thyroid Gland

MISSING

Esophagus Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum Intestine Small - Duodenum Intestine Small - Ileum Intestine Small - Jejunum
Stomach - Glandular

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Infiltration Cellular Mineralization	Lymphocyte, Mild Minimal
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Inflammation	Acute, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Moderate
Nose	Olfactory Epi	Degeneration	Minimal
Ovary	Periovarn Tiss	Cyst	Moderate
Note: CYST TGLs = 1-5			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Pigmentation	Mild
Thymus			
Note: WET TISSUE SEARCH			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4963

TRT#: 5

SEX: Female

DAY ON TEST: 693

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Animal Note: SEVERE AUTOLYSIS IN DIGESTION TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4964

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow		Fibrosis	Moderate
Brain		Hemorrhage	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Hyperplasia	Lymphoid, Marked
Liver		Hematopoietic Cell Proliferation Hepatocellular Carcinoma Hyperplasia	Minimal Lymphoid, Marked
Note: ADENOMA ON SL.11 [Hepatocellular Carcinoma TGLS = 2-15.2]			
Lung		Congestion Hyperplasia	Mild Lymphoid, Marked
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Marked Lymphoid, Marked
Mammary Gland		Adenocarcinoma Ectasia	 Mild
[Adenocarcinoma TGLS = 1-15]			
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Minimal
Ovary		Hyperplasia	Lymphoid, Marked
Pancreas		Hyperplasia	Lymphoid, Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4964

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Marked
		Pigmentation	Mild
Thymus		Cyst	
		Hyperplasia	Lymphoid, Marked
Thyroid Gland	Follicle	Dilatation	Mild
	Follicle	Hyperplasia	Mild
Urinary Bladder		Angiectasis	Mild
		Hyperplasia	Lymphoid, Marked
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4966

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Skin	Thymus
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Marked Mild
Note: FIBROSIS--FEMUR AND SKULL			
Brain		Hemorrhage	Minimal
Heart		Inflammation	Chronic Active, Mild
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation Infiltration Cellular	Mild Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Moderate Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4966	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach	Glandular, Mucosa Forestomach Glandular Forestomach	Dilatation Hyperkeratosis Infiltration Cellular Inflammation	Mild Mild Lymphocyte, Mild Acute, Mild
Note: INFLAMMATION TGLs = 2-15+6 Note: HYPERKERATOSIS TGLs = 2-15+6			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 1-5			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4967

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 714
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow		Fibrosis	Moderate
	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Clitoral Gland		Abscess	Marked
Note: ABSCESS	TGLs = 1-15		
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node			
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4967

TRT#: 5

SEX: Female

DAY ON TEST: 714

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4968

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Hyperplasia Pigmentation	Mild Mild Mild
Bone Marrow		Fibrosis Lymphoma Malignant Mixed	Marked
Note: FIBROSIS--FEMUR AND SKULL			
Brain		Hemorrhage Mineralization	Minimal Minimal
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
Liver		Lymphoma Malignant Mixed	
Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Lymphoma Malignant Mixed	Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Lymphoma Malignant Mixed	
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4968

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 1-12]

Stomach	Glandular, Mucosa Glandular	Dilatation Infiltration Cellular Infiltration Cellular	Minimal Lymphocyte, Mild Lymphocyte, Mild
Urinary Bladder			
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4969

TRT#: 5

SEX: Female

DAY ON TEST: 683

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pancreas	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Lymphoma Malignant Mixed	
Heart		Mineralization	Moderate
Kidney		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 5-12		
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 4-11+11.1		
Lung		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 9-4		
Lymph Node	Mandibular Mediastinal Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 6-15.2		
Note: LYMPH MAL MIXD	TGLs = 7-1,8-15.2		
Note: ABDOMINAL L.N.			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST	TGLs = 10-5		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4969	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Dead	DAY ON TEST: 683 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin		Alopecia	Mild
		Ulcer	Mild
Note: ALOPECIA	TGLs = 1-15		
Note: ULCER	TGLs = 1-15		
Spleen		Lymphoma Malignant Mixed	
		Necrosis	Marked
Note: NECROSIS	TGLs = 3-12		
Note: CAUSE OF DEATH LYMPH MAL MIXD			
Note: LYMPH MAL MIXD	TGLs = 2-12		
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Inflammation	Acute, Moderate

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4970

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Parathyroid Gland	Pituitary Gland	Skin	Thymus
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Moderate Mild
Brain		Lymphoma Malignant Mixed Mineralization	Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation Lymphoma Malignant Mixed	Mild
Liver	Renal Tubule	Regeneration Hematopoietic Cell Proliferation Infiltration Cellular	Minimal Mild Lymphocyte, Mild
Lung		Alveolar/Bronchiolar Adenoma Lymphoma Malignant Mixed	
[Alveolar/Bronchiolar Adenoma TGLS = 1-15]			
Lymph Node	Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-15.1			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Ovary		Luteoma Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4970

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LUTEOMA--PWG COMMENTS?

Pancreas		Lymphoma Malignant Mixed	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Minimal
Stomach	Forestomach	Hyperplasia	Squamous, Focal, Moderate
	Glandular	Infiltration Cellular	Lymphocyte, Mild
		Lymphoma Malignant Mixed	
Urinary Bladder		Hyperplasia	Cystic, Moderate
Uterus	Endometrium	Inflammation	Acute, Mild
	Endometrium	Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:10
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4971 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 730
DOSE: 0 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pancreas	Parathyroid Gland	Skin	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Moderate Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Lymphoma Malignant Mixed	
Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Lymphoma Malignant Mixed Regeneration	Minimal
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Lymphoma Malignant Mixed	
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Minimal Mild
Ovary		Hemangioma	
[Hemangioma TGLS = 1-15]			
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:10
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4971

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Mucosa Forestomach Glandular	Dilatation Hyperplasia Lymphoma Malignant Mixed	Minimal Squamous, Focal, Moderate
Note: [HYPERPLASIA] TGLs = 2-15.1			
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium Endometrium	Hyperplasia Inflammation	Cystic, Moderate Acute, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:10

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4972

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Ovary
Parathyroid Gland	Skin	Stomach - Forestomach	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Intestine Small	Jejunum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-6+15.2			
Kidney	Renal Tubule	Dilatation Hyperplasia	Minimal Lymphoid, Marked
Liver		Hematopoietic Cell Proliferation Infiltration Cellular Necrosis	Minimal Lymphocyte, Mild Minimal
Lung		Congestion Hyperplasia	Mild Lymphoid, Marked
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Marked
Mammary Gland		Ectasia	Moderate
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Minimal Mild
Pancreas		Hyperplasia	Lymphoid, Marked
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4972

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 3-1		
Salivary Glands		Hyperplasia	Lymphoid, Marked
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Marked
		Pigmentation	Mild
Stomach	Glandular	Inflammation	Acute, Mild
Thymus		Hyperplasia	Lymphoid, Marked
Urinary Bladder		Hyperplasia	Lymphoid, Marked
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	

Note: POLYP STROMAL TGLs = 1-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4973 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 463
DOSE: 0 PPM **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Uterus			

MISSING

Pituitary Gland Thymus

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitial	Inflammation	Acute, Minimal
Note: INFLAMMATION TGLs = 3-4			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: WET TISSUE SEARCH FOR MESENTERIC L.N.			
Note: PANCREATIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Pituitary GI			
Note: WET TISSUE SEARCH			
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 2-15			
Spleen		Pigmentation	Mild
Thymus			
Note: WET TISSUE SEARCH			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4973

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 463
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4975

TRT#: 5

SEX: Female

DAY ON TEST: 681

DOSE: 0 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Ovary
Stomach - Forestomach	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver	Hepatocyte	Hemangiosarcoma Hematopoietic Cell Proliferation Hypertrophy Necrosis	Mild Mild Moderate
Note: HEMANGIOSARC TGLs = 3-15.1			
Note: CAUSE OF DEATH--HEMANGIOSARCOMA			
Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild Lymphoid, Mild
Note: REGIONAL L.N. HYPERPLASTIC			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Vomeronas Org	Degeneration Inflammation	Mild Acute, Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: [HYPERPLASIA] TGLs = 5-1			
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4975

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 681
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Alopecia	Mild
Note: ALOPECIA	TGLs = 2-15		
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stomach	Glandular	Erosion	Moderate
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Ulcer	Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4976

TRT#: 5

SEX: Female

DAY ON TEST: 347

DOSE: 0 PPM

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Ovary
Pituitary Gland	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Moderate
Nose	Olfactory Epi	Degeneration	Moderate
	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4977

TRT#: 5

SEX: Female

DAY ON TEST: 4

DOSE: 0 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Blood Vessel

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

Mammary Gland

Nose

Ovary

Pancreas

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

MISSING

Lymph Node - Mandibular

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Lymph Node

Note: WET TISSUE SEARCH FOR MANDIBULAR L.N.

Note: MESENTERIC NORMAL

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Animal Note: SEVERE AUTOLYSIS IN ALL TISSUES

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 4979

TRT#: 5

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Pancreas	Skin
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Mild Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Mild
Liver		Hemangioma Hematopoietic Cell Proliferation Infiltration Cellular Necrosis	Minimal Lymphocyte, Mild Mild
Note: HEMANGIOMA	TGLs = 3-15		
Lung		Congestion Infiltration Cellular Mineralization	Mild Lymphocyte, Mild Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Note: REGIONAL L.N. ALSO HYPERPLASTIC			
Mammary Gland		Ectasia	Marked
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4979

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland Note: ADENOMA TGLs = 2-1	Lumen Pars Distalis	Hemorrhage Adenoma	Mild
Salivary Glands Spleen		Infiltration Cellular Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Lymphocyte, Mild Mild Lymphoid, Mild Minimal
Stomach Urinary Bladder Uterus [Hyperplasia TGLS = 1-5]	Glandular, Mucosa Endometrium	Dilatation Infiltration Cellular Hyperplasia	Minimal Lymphocyte, Mild Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:11
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4980 TRT#: 5 SEX: Female DAY ON TEST: 729
 DOSE: 0 PPM DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Brain		Hemorrhage	Mild
Kidney	Renal Tubule	Dilatation Hyperplasia	Minimal Lymphoid, Marked
Liver		Hematopoietic Cell Proliferation Hyperplasia	Minimal Lymphoid, Marked
Lung		Hyperplasia Inflammation	Lymphoid, Marked Acute, Minimal
Lymph Node	Interstitium Iliac Mandibular Mesenteric Renal	Hyperplasia Hyperplasia Hyperplasia Hyperplasia	Lymphoid, Marked Lymphoid, Marked Lymphoid, Marked Lymphoid, Marked
Note: [HYPERPLASIA] TGLs = 3-15+15.1			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Respirat Epith Nasolacrim Dct	Degeneration Degeneration Hemorrhage	Mild Minimal Minimal
Ovary		Hyperplasia	Lymphoid, Marked
Pancreas		Hyperplasia	Lymphoid, Marked
Salivary Glands		Hyperplasia	Lymphoid, Marked
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4980

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

		Hyperplasia Pigmentation	Lymphoid, Marked Mild
Note: [HYPERPLASIA] TGLs = 1-12 Stomach	Glandular Glandular	Hyperplasia Inflammation	Lymphoid, Marked Acute, Moderate
Note: INFLAMMATION TGLs = 4-6 Thymus		Hyperplasia	Lymphoid, Marked
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Hyperplasia	Lymphoid, Marked
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 2-5			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4981

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Ovary	Parathyroid Gland	Skin	Stomach - Forestomach
Thyroid Gland	Trachea		

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Medulla Cortex	Hyperplasia Pheochromocytoma Nos Pigmentation	Mild Mild
Bone Marrow		Fibrosis Lymphoma Malignant Lymphocytic	Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Heart		Lymphoma Malignant Lymphocytic	
Kidney	Renal Tubule	Dilatation	Minimal
Liver		Lymphoma Malignant Lymphocytic	
Lung		Lymphoma Malignant Lymphocytic	
Lymph Node	Mesenteric	Lymphoma Malignant Lymphocytic	
Mesentery		Lymphoma Malignant Lymphocytic	
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Lymphoma Malignant Lymphocytic	
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Lymphocytic Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4981	TRT#: 5 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 1-12]

Stomach	Glandular, Mucosa Glandular	Dilatation Lymphoma Malignant Lymphocytic	Mild
Thymus		Lymphoma Malignant Lymphocytic	
Urinary Bladder		Lymphoma Malignant Lymphocytic	
Uterus	Endometrium	Angiectasis Hyperplasia	Moderate Cystic, Moderate

Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.

Note: HYPERPLASIA TGLs = 3-5+15

Note: [ANGIECTASIS] TGLs = 4-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4982 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 393
DOSE: 0 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart	Valve	Thrombosis	Marked
Note: BACTERIAL ETIOLOGY			
Note: CAUSE OF DEATH			
Kidney		Infarct	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: INFARCT TGLs = 1-12			
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Congestion	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: CONGESTION TGLs = 2-4			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4982

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 393
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4983

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Pigmentation Thrombosis	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Moderate Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Hyperplasia	Lymphoid, Marked
Kidney		Hyperplasia	Lymphoid, Marked
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion Hyperplasia	Minimal Lymphoid, Marked
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Ovary	Periovarn Tiss	Cyst	
Note: CYST TGLs = 3-5			
Salivary Glands		Hyperplasia	Lymphoid, Marked
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Marked Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4983

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HYPERPLASIA] TGLs = 1-12
Stomach

Forestomach
Forestomach

Erosion
Hyperplasia

Mild
Squamous, Mild

Note: HYPERPLASIA TGLs = 4-15
Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:11
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 4984 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 731
DOSE: 0 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Ovary	Pancreas
Pituitary Gland	Skin	Thymus	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Infiltration Cellular Mineralization	Lymphocyte, Mild Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation Infiltration Cellular	Minimal Lymphocyte, Mild
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Iliac Mandibular Mesenteric	Hyperplasia Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Respirat Epith Mucosa	Degeneration Degeneration Inflammation	Mild Minimal Acute, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
Stomach	Glandular, Mucosa Forestomach	Dilatation Hyperplasia	Minimal Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4984

TRT#: 5
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach	Infiltration Cellular	Lymphocyte, Mild
Glandular	Infiltration Cellular	Lymphocyte, Mild
Forestomach	Inflammation	Acute, Mild
Thyroid Gland	Follicle	Minimal
Urinary Bladder	Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Cystic, Moderate
	Endometrium	Acute, Minimal
	Endometrium	

Note: HYPERPLASIA TGLs = 2-6+15

Note: INFLAMMATION TGLs = 2-6+15

Note: POLYP--PROMINENT EPITHELIAL COMPONENT

Note: POLYP STROMAL TGLs = 1-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5045

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Skin

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach

Bone
Intestine Large - Rectum
Islets, Pancreatic
Thymus

Esophagus
Intestine Small - Duodenum
Ovary
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Mild
Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Pelvis

Dilatation

Mild

Renal Tubule

Dilatation

Mild

Infiltration Cellular

Lymphocyte, Mild

Metaplasia

Osseous, Moderate

Renal Tubule

Necrosis

Minimal

Renal Tubule

Regeneration

Mild

Liver

Hematopoietic Cell Proliferation

Mild

Infiltration Cellular

Lymphocyte, Mild

Infiltration Cellular

Lymphocyte, Mild

Lung

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Mediastinal

Hyperplasia

Lymphoid, Mild

Mesenteric

Hyperplasia

Lymphoid, Mild

Note: BLOCK 3

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi

Degeneration

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5045	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Lumen	Hemorrhage	Minimal
Pituitary Gland	Mucosa	Inflammation	Acute, Mild
Note: ADENOMA TGLs = 2-1	Pars Distalis	Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Adenoma	
Spleen		Infiltration Cellular	Lymphocyte, Mild
		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Ectasia	Mild
Note: ECTASIA TGLs = 1-5			
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5046

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Ovary	Pituitary Gland
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Harderian Gland	Bilateral	Adenocarcinoma	
Note: ADENOCARC TGLs = 2-15			
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Mild Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation Hepatocellular Adenoma Infiltration Cellular	Minimal Lymphocyte, Mild
Note: HEPATOCLR ADEN TGLs = 4-15.3			
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen Nasolacrim Dct	Degeneration Hemorrhage Inflammation	Mild Mild Acute, Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5046	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Note: HYPERPLASIA	TGLs = 1-12		
Stomach	Glandular, Mucosa Glandular Glandular	Dilatation Infiltration Cellular Inflammation	Mild Lymphocyte, Minimal Chronic, Mild
Note: INFLAMMATION	TGLs = 3-6		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5047

TRT#: 6

SEX: Female

DAY ON TEST: 163

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation Cyst	Mild Mild
Clitoral Gland			
Kidney	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Ovary	Follicle	Cyst Multilocular	
Note: CYST MULTILOC TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Hyperplasia	Lymphoid, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5048

TRT#: 6

SEX: Female

DAY ON TEST: 712

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Mammary Gland	Ovary	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Lymphoma Malignant Histiocytic	
Note: CAUSE OF DEATH			
Note: LYMPH MAL HIST TGLs = 4-11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: REGIONAL L.N. HYPERPLASTIC			
Nose	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-1			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
[Alopecia TGLS = 1-7]			
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 3-12			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5048

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 712
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder
Uterus

Endometrium

Infiltration Cellular
Hyperplasia
Lymphoma Malignant Histiocytic

Lymphocyte, Mild
Cystic, Mild

Note: LYMPH MAL HIST TGLs = 6-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5049

TRT#: 6

DOSE: 600 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 605

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Ovary
Pancreas	Skin	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Lymphoma Malignant Undifferentiated Cell Type Pigmentation	Mild Mild
Gallbladder		Lymphoma Malignant Undifferentiated Cell Type	
Intestine Small	Duodenum	Lymphoma Malignant Undifferentiated Cell Type	
Note: LYMPH MAL UNDF TGLs = 6-6			
Note: WET TISSUE SEARCH FOR DUODENUM AND JEJUNUM			
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Lymphoma Malignant Undifferentiated Cell Type	
Note: CAUSE OF DEATH			
Note: LYMPH MAL UNDF TGLs = 1-11			
Note: LYMPH MAL UNDF TGLs = 5-15			
Lung		Lymphoma Malignant Undifferentiated Cell Type	
Note: LYMPH MAL UNDF TGLs = 9-4			
Note: CAUSE OF DEATH			
Lymph Node		Lymphoma Malignant Undifferentiated Cell Type	
Note: HEPATIC			
Note: LYMPH MAL UNDF TGLs = 4-15.1			
Note: MESENTERIC MISSING			
Mesentery		Lymphoma Malignant	
Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5049	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 605 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Mild
	Nasolacrim Dct	Inflammation	Acute, Mild
Pituitary Gl			
Note: WET TISSUE SEARCH			
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Lymphoma Malignant Undifferentiated Cell Type	
Note: CAUSE OF DEATH			
Note: LYMPH MAL UNDF TGLs = 2-12			
Stomach	Forestomach	Ulcer	Mild
	Glandular	Ulcer	Moderate
Note: ULCER TGLs = 10-6			
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 8-5			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5050

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pituitary Gland	Skin	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Casts Protein	Mild
	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Moderate
	Renal Tubule	Necrosis	Minimal
Liver	Renal Tubule	Regeneration	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Mild
Nose	Nasolacrim Dct	Hemorrhage	Mild

Note: HEPATOCLR CARC TGLs = 1-15

Note: HYPERPLASIA TGLs = 2-15.1

Note: REGIONAL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5050	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Infiltration Cellular	Lymphocyte, Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Inflammation	Acute, Mild
	Glandular	Inflammation	Acute, Mild
Note: INFLAMMATION	TGLs = 3-15.2		
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5051

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Ovary

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach

Bone
Intestine Large - Rectum
Islets, Pancreatic
Trachea

Esophagus
Intestine Small - Duodenum
Mammary Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Mild
Mild

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule

Dilatation

Minimal

Liver

Renal Tubule

Infiltration Cellular
Regeneration
Hematopoietic Cell Proliferation

Lymphocyte, Mild
Minimal
Mild

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Nose

Mesenteric

Hyperplasia

Lymphoid, Mild

Pancreas

Olfactory Epi

Degeneration

Mild

Pituitary Gland

Pars Distalis

Infiltration Cellular

Lymphocyte, Mild

Pars Distalis

Adenoma

Hemorrhage

Marked

Note: HEMORRHAGE TGLs = 2-1

Note: ADENOMA TGLs = 2-1

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Skin

Subcut Tiss

Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5051	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: [FIBROSARC] TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
Stomach	Glandular, Mucosa	Dilatation	Minimal
Thymus		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Dilatation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5053 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 733
DOSE: 600 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pancreas	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Mild
	Myeloid Cell	Hyperplasia	Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Intestine Large	Anorectal Jct	Inflammation	Chronic Active, Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Lymphoma Malignant Mixed	
Liver		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST			
Pituitary Gland	Pars Distalis	Cyst	Mild

TGLs = 2-5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5053

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands	Pars Distalis	Hyperplasia	Mild
Spleen		Infiltration Cellular	Lymphocyte, Minimal
		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Marked
	Endometrium	Inflammation	Acute, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5054

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Gallbladder
Intestine Small - Ileum
Parathyroid Gland
Thymus

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Salivary Glands
Thyroid Gland

Bone
Intestine Large - Rectum
Islets, Pancreatic
Skin
Trachea

Esophagus
Intestine Small - Duodenum
Pancreas
Stomach - Forestomach

OBSERVATIONS

Adrenal Gland
Bone Marrow
Brain
Heart
Intestine Large
Note: [HISTIO SARC] TGLs = 5-6.1
Kidney

Capsule, Spindle Cell
Cortex
Myeloid Cell
Cecum

Hyperplasia
Pigmentation
Hyperplasia
Mineralization
Histiocytic Sarcoma
Histiocytic Sarcoma
Histiocytic Sarcoma
Infiltration Cellular
Histiocytic Sarcoma
Histiocytic Sarcoma
Histiocytic Sarcoma
Histiocytic Sarcoma
Histiocytic Sarcoma

Mild
Mild
Mild
Mild
Lymphocyte, Mild

Liver
Note: [HISTIO SARC] TGLs = 3-11
Lung
Lymph Node
Note: [HISTIO SARC] TGLs = 7-15
Note: [HISTIO SARC] TGLs = 6-1
Note: [HISTIO SARC] TGLs = 8-15.1

Iliac
Mandibular
Mesenteric
Renal

Ectasia
Degeneration
Hemorrhage
Inflammation
Hemorrhage

Mild
Mild
Mild
Acute, Mild
Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5054	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Dead	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE TGLs = 4-5 Pituitary Gland Spleen	Pars Distalis	Hyperplasia Hematopoietic Cell Proliferation Histiocytic Sarcoma	Mild Moderate
Note: [HISTIO SARC] TGLs = 1-12 Note: CAUSE OF DEATH Note: HEMA CELL PROL TGLs = 1-12 Stomach	Glandular	Erosion Histiocytic Sarcoma	Moderate
Note: [HISTIO SARC] TGLs = 9-6 [Erosion TGLS = 9-15.2+6] Urinary Bladder Uterus	Endometrium Endometrium	Infiltration Cellular Hyperplasia Inflammation	Lymphocyte, Mild Cystic, Moderate Acute, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5055

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Skin

Stomach - Forestomach

Thymus

Trachea

Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Moderate

Cortex

Pigmentation

Mild

Bone Marrow

Myeloid Cell

Fibrosis

Mild

Hyperplasia

Mild

Brain

Lymphoma Malignant Mixed

Mineralization

Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule

Dilatation

Minimal

Infiltration Cellular

Lymphocyte, Mild

Liver

Infiltration Cellular

Lymphocyte, Mild

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Mesenteric

Lymphoma Malignant Mixed

Mammary Gland

Ectasia

Minimal

Mesentery

Lymphoma Malignant Mixed

Note: SLIDE 6

Nose

Olfactory Epi

Degeneration

Mild

Lumen

Hemorrhage

Mild

Ovary

Follicle

Cyst

[Cyst TGLS = 1-5]

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5055

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Inflammation	Acute, Mild
Thyroid Gland	Follicle	Hyperplasia	Moderate
		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5056

TRT#: 6

SEX: Female

DAY ON TEST: 576

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary	Salivary Glands
Skin	Stomach - Forestomach	Thyroid Gland	Trachea
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Infiltration Cellular Mineralization	Lymphocyte, Mild Mild
Kidney	Renal Tubule Renal Tubule	Dilatation Infiltration Cellular Regeneration	Minimal Lymphocyte, Mild Minimal
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Pancreas	Acinus	Atrophy Infiltration Cellular	Moderate Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-1		
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5056

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 576
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5057

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Thymus

Blood Vessel
Heart
Intestine Small - Duodenum
Mammary Gland
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Ovary

Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Skin

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Bone Marrow
Brain

Capsule, Spindle Cell
Cortex
Myeloid Cell

Hyperplasia
Pigmentation
Hyperplasia
Hemorrhage
Mineralization

Mild
Mild
Mild
Mild
Minimal

Kidney

Renal Tubule

Dilatation
Hemorrhage
Infiltration Cellular

Minimal
Mild
Lymphocyte, Mild

Liver

Renal Tubule

Regeneration
Hematopoietic Cell Proliferation
Hepatocellular Adenoma
Necrosis

Mild
Mild
Mild
Mild

[Hepatocellular Adenoma TGLS = 1-15]

Lung

Congestion
Hemorrhage
Infiltration Cellular

Mild
Minimal
Lymphocyte, Mild

Lymph Node

Mandibular
Mandibular
Mesenteric

Hyperplasia
Inflammation
Inflammation

Lymphoid, Mild
Acute, Mild
Acute, Mild

Nose

Olfactory Epi
Lumen

Degeneration
Hemorrhage

Mild
Mild

Pancreas

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5057	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
Stomach	Glandular, Mucosa	Dilatation	Minimal
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Mineralization	Minimal
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Inflammation	Acute, Marked

Note: HYPERPLASIA TGLs = 2-5
Note: INFLAMMATION TGLs = 2-5

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5058

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Ovary	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Medulla Cortex	Hyperplasia Pheochromocytoma Nos Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia Lymphoma Malignant Mixed	Mild Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation Lymphoma Malignant Mixed	Mild
Note: ARTIFACT IN PELVIS			
Liver		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Minimal
Lymph Node	Mandibular Mediastinal Mesenteric	Hyperplasia Lymphoma Malignant Mixed Lymphoma Malignant Mixed	Lymphoid, Mild
Note: LYMPH MAL MIXD TGLs = 4-15.1			
Note: LYMPH MAL ALSO IN HEPATIC L.N.			
Note: MEDIASTINAL L.N.--SLIDE 2A			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5058

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Pancreas	Acinus	Atrophy	Marked
	Duct	Cyst	
Note: CYST	TGLs = 5-6.1		
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Minimal
[Hematopoietic Cell Proliferation TGLS = 1-12]			
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: SECTIONS OF GL. STOM. ADEQUETE-NO RECUTS			
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 2-5		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5059

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Thyroid Gland

Blood Vessel
Intestine Large - Rectum
Islets, Pancreatic
Trachea

Bone
Intestine Small - Duodenum
Ovary
Uterus

Intestine Large - Cecum
Intestine Small - Ileum
Skin

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Minimal
Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Hemorrhage
Mineralization

Minimal
Mild

Esophagus

Inflammation

Acute, Moderate

Gallbladder

Inflammation

Chronic, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule
Renal Tubule

Dilatation
Regeneration

Mild
Minimal

Liver

Hematopoietic Cell Proliferation
Infiltration Cellular

Mild
Lymphocyte, Mild

Lung

Alveolus

Alveolar/Bronchiolar Carcinoma
Infiltration Cellular
Lymphoma Malignant Mixed

Histiocyte, Moderate

Note: ALV BRON CARC TGLs = 3-15.1+4

Lymph Node

Mandibular
Mediastinal
Mesenteric

Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 5-15.3

Note: LYMPH MAL IN HEPATIC L.N.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5059 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 729
DOSE: 600 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MEDIASTINAL L.N.--SLIDE 3			
Mammary Gland		Ectasia	Marked
Mesentery		Lymphoma Malignant Mixed	
Note: SLIDE 6			
Nose	Olfactory Epi	Degeneration	Minimal
	Respirat Epith	Degeneration	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skeletal Muscle	Head	Inflammation	Acute, Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Note: LYMPH MAL MIXD TGLs = 1-15,2-12			
Stomach	Glandular, Mucosa	Dilatation	Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Squamous Cell Papilloma	
Note: SQ CL PAPILLOM TGLs = 4-15.2			
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5060

TRT#: 6

SEX: Female

DAY ON TEST: 578

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Uterus

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Brain		Compression	Moderate
Heart	Atrium	Thrombosis	Marked
Note: THROMBUS TGLs = 2-9			
Kidney		Inflammation	Chronic, Marked
Liver		Hepatocellular Carcinoma	
Note: CAUSE OF DEATH			
Note: HEPATOCLR CARC TGLs = 3-15			
Lung	Alveolus	Hemorrhage Infiltration Cellular Infiltration Cellular	Mild Histiocyte, Mild Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Moderate
Mammary Gland	Acinus	Ectasia	Moderate
Nose	Olfactory Epi Respirat Epith Turbinate	Degeneration Degeneration Inflammation	Mild Mild Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-1			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5060

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 578
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5063

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Ovary
Pancreas	Salivary Glands	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Minimal
Note: RECUT FOR MEDULLA			
Bone Marrow	Myeloid Cell	Hemangiosarcoma Hyperplasia	Metastatic (Skin) Mild
Brain		Mineralization	Moderate
Heart		Infiltration Cellular	Lymphocyte, Minimal
Intestine Large	Anus	Inflammation	Acute, Marked
	Rectum	Inflammation	Acute, Marked
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Mammary Gland			
Note: WET TISSUE SEARCH			
Nose	Olfactory Epi	Degeneration	Minimal
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Hyperplasia	Moderate
Skin	Subcut Tissue Foot	Hemangiosarcoma Ulcer	Marked
Note: HEMANGIOSARC TGLs = 1-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5063

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 708
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ULCER	TGLs = 2-15.2			
Note: CAUSE OF DEATH				
Spleen			Hematopoietic Cell Proliferation	Mild
			Pigmentation	Mild
Stomach		Glandular	Ulcer	Moderate
Note: ULCER	TGLs = 3-6			
Thyroid Gland		Follicle	Hyperplasia	Mild
			Infiltration Cellular	Lymphocyte, Mild
Uterus		Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5064

TRT#: 6

SEX: Female

DAY ON TEST: 518

DOSE: 600 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Capsule Cortex	Hyperplasia Inflammation Pigmentation	Mild Acute, Mild Mild
Gallbladder		Inflammation	Acute, Moderate
Heart		Inflammation	Acute, Marked
Kidney		Inflammation	Marked
Note: INFLAMMATION TGLs = 6-12			
Liver		Hematopoietic Cell Proliferation	Moderate
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Interstitialium, Pleura Mandibular Mediastinal Mesenteric	Inflammation Inflammation Inflammation Inflammation	Acute, Mild Acute, Moderate Acute, Moderate Acute, Moderate
Note: SLIDE 2A			
Nose	Lumen	Hemorrhage	Mild
Ovary		Abscess	Marked
Note: ABSCESS TGLs = 4-15.2			
Note: CAUSE OF DEATH			
Pancreas		Inflammation	Acute, Moderate
Skin		Alopecia	Moderate
Note: ALOPECIA TGLs = 1-15	Subcut Tiss	Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5064	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 518 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen Note: HEMA CELL PROL TGLs = 3-12	Capsule	Hematopoietic Cell Proliferation Inflammation	Marked Acute, Mild
Stomach Thymus	Glandular, Mucosa	Dilatation Hyperplasia	Mild Lymphoid, Moderate
Ureter Note: DILATATION TGLs = 5-15.3		Dilatation	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5065

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Blood Vessel	Bone
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Uterus

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Heart		Inflammation	Chronic, Mild
Kidney	Renal Tubule Renal Tubule Renal Tubule	Infiltration Cellular Necrosis Pigmentation	Lymphocyte, Mild Mild Mild
Liver		Regeneration Hematopoietic Cell Proliferation Infiltration Cellular	Mild Mild Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Bronchial Mandibular Mesenteric	Congestion Hyperplasia Hyperplasia Hyperplasia	Moderate Lymphoid, Mild Lymphoid, Mild Lymphoid, Mild
Note: BRONCHIAL SLIDE 4			
Note: CONGESTION	TGLs = 4-1		
Note: HYPERPLASIA	TGLs = 4-1		
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Minimal Moderate
Ovary	Periovarn Tiss	Cyst	
Note: CYST	TGLs = 5-5		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5065

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 725
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Alopecia	Mild
	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC	TGLs = 2-15		
Note: ALOPECIA	TGLs = 7-7		
Note: FIBROSARCOMA--CAUSE OF DEATH			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 3-12		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5066

TRT#: 6

SEX: Female

DAY ON TEST: 598

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Ovary
Thymus

Adrenal Gland - Medulla
Gallbladder
Intestine Small - Ileum
Salivary Glands
Thyroid Gland

Blood Vessel
Intestine Large - Cecum
Intestine Small - Jejunum
Skin
Uterus

Bone
Intestine Large - Colon
Islets, Pancreatic
Stomach - Forestomach

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Bone Marrow
Brain

Capsule, Spindle Cell
Myeloid Cell
Nerve

Hyperplasia
Hyperplasia
Compression
Inflammation

Mild
Mild
Mild
Acute, Moderate

Note: SLIDE 14C

Heart
Intest Large

Infiltration Cellular

Lymphocyte, Minimal

Note: RECUT REQUESTED RECTUM

Intestine Small
Kidney

Duodenum
Capsule
Pelvis

Inflammation
Abscess
Infiltration Cellular
Inflammation
Inflammation

Chronic Active, Marked
Marked
Lymphocyte, Mild
Chronic, Moderate
Acute, Mild

Note: ABSCESS TGLs = 1-12

Liver

Serosa

Hematopoietic Cell Proliferation
Inflammation

Mild
Chronic, Moderate

Note: SLIDE 12

Lung
Lymph Node

Mandibular
Mesenteric

Infiltration Cellular
Hyperplasia
Hyperplasia

Lymphocyte, Mild
Lymphoid, Mild
Lymphoid, Mild

Mammary Gland
Nose

Olfactory Epi

Ectasia
Degeneration

Mild
Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5066	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Dead	DAY ON TEST: 598 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
	Respirat Epith	Degeneration	Moderate
	Lumen	Hemorrhage	Mild
	Mucosa	Inflammation	Acute, Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Intermed	Adenoma	
Note: RECUT REQUESTED			
Note: ADENOMA TGLs = 2-1			
Spleen		Infiltration Cellular	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Trachea		Inflammation	Acute, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH	-
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Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5067

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Thyroid Gland

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Pituitary Gland
Trachea

Bone
Intestine Large - Rectum
Islets, Pancreatic
Skin

Esophagus
Intestine Small - Duodenum
Liver
Thymus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation
Fibrosis

Mild
Mild
Mild

Bone Marrow

Note: FIBROSIS ALSO IN SKULL

Brain

Infiltration Cellular

Lymphocyte, Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Minimal

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule

Dilatation
Infiltration Cellular

Minimal
Lymphocyte, Mild

Lung

Hemorrhage
Infiltration Cellular

Moderate
Lymphocyte, Mild

Lymph Node

Mandibular
Mesenteric

Hyperplasia
Inflammation

Lymphoid, Mild
Acute, Mild

Nose

Olfactory Epi
Lumen

Degeneration
Hemorrhage

Mild
Mild

Ovary

Periovarn Tiss

Cyst

[Cyst TGLS = 2-5]

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Salivary Glands

Infiltration Cellular

Lymphocyte, Moderate

Spleen

Hematopoietic Cell Proliferation
Hyperplasia
Pigmentation

Mild
Lymphoid, Mild
Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5067

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
	Forestomach	Inflammation	Acute, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-5]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5068

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Pituitary Gland	Skin	Thymus	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Minimal
	Myeloid Cell	Hyperplasia	Mild
Note: MINIMAL FIBROSIS IN SKULL			
Brain		Infiltration Cellular	Lymphocyte, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Congestion	Mild
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Marked
Note: MANDIBULAR WITH SALIVARY GL.			
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Mild
Ovary		Pigmentation	Cholesterol, Hemosiderin, Moderate
Note: NORMAL POST-OVULATORY CHANGE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5068

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 2-5]

Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Forestomach	Erosion	Mild
	Forestomach	Hyperplasia	Squamous, Moderate
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Inflammation	Chronic Active, Mild
Note: HYPERPLASIA	TGLs = 3-6+15		
Note: INFLAMMATION	TGLs = 3-6		
Note: EROSION	TGLs = 3-6		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5070

TRT#: 6

SEX: Female

DAY ON TEST: 509

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Blood Vessel

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

Mammary Gland

Nose

Ovary

Pancreas

Parathyroid Gland

Pituitary Gland

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

AUTO PRECLUDES DIAG.

Spleen

OBSERVATIONS

Liver

Hepatocellular Adenoma

Necrosis

Marked

Note: HEPATOCLR ADEN TGLs = 2-15

Note: LIVER NECROSIS--CAUSE OF DEATH

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Note: MESENTERIC NORMAL

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS OF ALL TISSUES

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5071 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 702
DOSE: 600 PPM **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF] TGLs = 8-11			
Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Mild
Note: ALV BRON ADEN TGLs = 1-15	Interstitialium	Inflammation	Acute, Mild
Lymph Node	Iliac Mesenteric Renal	Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF] TGLs = 5-15.3			
Note: [LYMPH MAL UNDF] TGLs = 7-15.5			
Note: [LYMPH MAL UNDF] TGLs = 6-15.4			
Note: HEPATIC			
Note: [LYMPH MAL UNDF] TGLs = 4-15.2			
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5071

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 702
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Inguinal	Ulcer	Marked
Note: 6.1			
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Undifferentiated Cell Type	
		Pigmentation	Mild
Note: CAUSE OF DEATH			
Note: [LYMPH MAL UNDF] TGLs = 2-15.1,3-12			
Note: HEMA CELL PROL TGLs = 2-15.1,3-12			
Stomach	Forestomach	Hyperplasia	Squamous, Focal, Moderate
	Glandular	Inflammation	Acute, Moderate
		Lymphoma Malignant Undifferentiated Cell Type	
Note: INFLAMMATION TGLs = 9-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5072

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Ovary	Pancreas	Salivary Glands	Skin
Thymus	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Mild
	Myeloid Cell	Hyperplasia	Mild
Note: MINIMAL FIBROSIS IN SKULL			
Brain		Hemorrhage	Minimal
		Mineralization	Moderate
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Intest Large			
Note: COLON--ARTIFACT			
Intestine Small	Ileum	Amyloid Deposition	Moderate
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5072	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thyroid Gland	Follicle	Hyperplasia	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5074

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Parathyroid Gland	Salivary Glands
Skin	Thymus	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Capsule, Spindle Cell	Hyperplasia	Moderate
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Minimal
	Myeloid Cell	Hyperplasia	Mild
Note: MINIMAL FIBROSIS IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Nose	Olfactory Epi	Degeneration	Minimal
	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 2-1 [Adenoma TGLS = 2-1]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5074	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach	Forestomach Glandular Forestomach	Pigmentation Hyperplasia Infiltration Cellular Inflammation	Mild Squamous, Moderate Lymphocyte, Mild Chronic Active, Mild
Note: INFLAMMATION TGLs = 3-6+15 [Inflammation TGLS = 3-6+15]			
Thyroid Gland	Follicle	Hyperplasia Infiltration Cellular	Marked Lymphocyte, Moderate
Note: HYPERPLASIA TGLs = 1-2 Note: INFILTRAT CELL TGLs = 1-2			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5075

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Parathyroid Gland

Trachea

Uterus

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Moderate

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Minimal
Mild

Note: MINIMAL FIBROSIS IN SKULL

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Kidney

Renal Tubule

Dilatation

Minimal

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Regeneration

Mild

Liver

Hepatocellular Adenoma

Infiltration Cellular

Lymphocyte, Minimal

[Hepatocellular Adenoma TGLS = 1-15]

Lung

Infiltration Cellular

Lymphocyte, Mild

Interstitialium

Inflammation

Chronic, Minimal

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Mesenteric

Inflammation

Acute, Moderate

Note: LYMPHOID HYPER.--REGIONAL L.N. ALSO

Mammary Gland

Ectasia

Moderate

Nose

Olfactory Epi

Degeneration

Minimal

Lumen

Hemorrhage

Mild

Ovary

Periovarn Tiss

Cyst

Note: CYST TGLs = 2-5

Pancreas

Infiltration Cellular

Lymphocyte, Minimal

Pituitary Gland

Pars Distalis

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5075 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 729
DOSE: 600 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA	TGLs = 3-1		
Note: HYPERPLASIA	TGLs = 3-1		
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin		Inflammation	Chronic, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stomach	Glandular	Edema	Mild
	Forestomach	Hyperplasia	Squamous, Moderate
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Ulcer	Moderate
Note: HYPERPLASIA	TGLs = 4-15.2		
Note: ULCER	TGLs = 4-15		
Note: EDEMA	TGLs = 5-6		
Thymus		Cyst	
		Hyperplasia	Lymphoid, Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5076

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 641
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Pituitary Gland	Salivary Glands	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Intestine Small	Duodenum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 6-15.4			
Kidney		Lymphoma Malignant Mixed	
Liver		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
Lung	Alveolar Epith	Hyperplasia Lymphoma Malignant Mixed	Mild
Lymph Node	Iliac Mandibular Mesenteric Renal	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-15.2+15.3			
Note: LYMPH MAL MIXD TGLs = 4-15.1			
Nose	Olfactory Epi	Degeneration	Mild
Ovary	Periovarn Tiss	Cyst Lymphoma Malignant Mixed	
Note: CYST TGLs = 7-5			
Pancreas		Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5076	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 641 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin Note: ALOPECIA TGLs = 3-15		Alopecia	Moderate
Spleen Note: CAUSE OF DEATH Note: HEMA CELL PROL TGLs = 1-12,2-12 Note: LYMPH MAL MIXD TGLs = 1-12,2-12		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
Stomach Note: LYMPH MAL MIXD TGLs = 8-15.5	Forestomach Forestomach Glandular	Hyperplasia Lymphoma Malignant Mixed Lymphoma Malignant Mixed	Squamous, Focal, Mild
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5077

TRT#: 6

SEX: Female

DAY ON TEST: 669

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Skin
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Necrosis	Marked
	Medulla	Necrosis	Marked
	Cortex	Pigmentation	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Marked
Mesentery		Inflammation	Chronic, Marked
	Fat	Necrosis	Marked
Note: NECROSIS	TGLs = 1-15		
Note: CAUSE OF DEATH			
Note: INFLAMMATION	TGLs = 2-15+15.1		
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5077	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 669 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
Stomach Note: ULCER	TGLs = 4-15+6	Forestomach Ulcer	Marked
Thymus		Edema	Moderate
Thyroid Gland		Follicle Hyperplasia	Mild
Uterus		Endometrium Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5078

TRT#: 6

SEX: Female

DAY ON TEST: 562

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Note: FRACTURE TGLs = 7-15.1	Femur	Fracture	
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver Note: WET TISSUE SEARCH FOR LESION Note: HEMA CELL PROL TGLs = 1-11		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric Renal	Hyperplasia Hyperplasia Inflammation	Lymphoid, Mild Lymphoid, Mild Acute, Moderate
Mammary Gland Note: INFLAMMATION TGLs = 5-15		Ectasia	Mild
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Minimal Mild
Ovary Note: ABSCESS TGLs = 3-5 Note: CAUSE OF DEATH		Abscess	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5078

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 562
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 2-12			
Stomach	Forestomach	Inflammation	Acute, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 6-5			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5079

TRT#: 6

SEX: Female

DAY ON TEST: 699

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Skin

Stomach - Forestomach

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Mild

Myeloid Cell

Hyperplasia

Mild

Brain

Mineralization

Mild

Heart

Coron Artery

Inflammation

Chronic, Moderate

Intestine Large

Anus

Ulcer

Marked

Kidney

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 5-15.2+12

Liver

Hematopoietic Cell Proliferation

Minimal

Lung

Congestion

Moderate

Lymph Node

Iliac

Lymphoma Malignant Mixed

Mandibular

Lymphoma Malignant Mixed

Mesenteric

Lymphoma Malignant Mixed

Renal

Lymphoma Malignant Mixed

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 3-15

Note: LYMPH MAL MIXD TGLs = 4-15.1

Note: LYMPH MAL MIXD TGLs = 2-1

Mammary Gland

Ectasia

Moderate

Nose

Mucosa

Inflammation

Acute, Minimal

Ovary

Periovarn Tiss

Cyst

Mild

Pancreas

Lymphoma Malignant Mixed

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5079	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Dead	DAY ON TEST: 699 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland Note: ADENOMA TGLs = 6-1	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen Note: LYMPH MAL MIXD TGLs = 1-12 Note: CAUSE OF DEATH		Lymphoma Malignant Mixed	
Stomach	Glandular	Erosion	Mild
	Glandular	Mineralization	Mild
Thymus Note: LYMPH MAL MIXD TGLs = 7-3		Lymphoma Malignant Mixed	
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5080

TRT#: 6

SEX: Female

DAY ON TEST: 659

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Pancreas	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
	Cortex	Thrombosis	Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Heart		Inflammation	Chronic, Mild
Kidney	Renal Tubule	Casts Protein	Mild
	Renal Tubule	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Necrosis	Mild
Note: NECROSIS	TGLs = 2-11		
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: HEMORRHAGE	TGLs = 4-4		
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Mammary Gland		Adenocarcinoma	
		Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5080	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 659 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: CAUSE OF DEATH			
Note: ADENOCARC	TGLs = 1-15		
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
Thyroid Gland	Follicle	Adenoma	
	Follicle	Dilatation	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5081

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Skin	Stomach - Glandular	Thymus	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Note: MILD FIBROSIS IN SKULL			
Brain		Infiltration Cellular Mineralization	Lymphocyte, Minimal Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Inflammation	Chronic, Mild
Islets Panc			
Note: LARGE ISLETS--NOT HYPERPLASTIC			
Kidney		Infiltration Cellular Regeneration	Lymphocyte, Mild Mild
Liver	Renal Tubule	Hematopoietic Cell Proliferation Hepatocellular Adenoma Infiltration Cellular	Mild Mild Lymphocyte, Mild
Note: HEPATOCLR ADEN TGLs = 2-11+15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Note: REGIONAL L.N. NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
Ovary	Periovarn Tiss	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5081	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: CYST TGLs = 1-5 [Cyst TGLS = 1-5]		Inflammation	Acute, Marked
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Forestomach	Erosion	Minimal
Thyroid Gland	Follicle	Dilatation	Mild
	Follicle	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
		Inflammation	Acute, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5082

TRT#: 6

SEX: Female

DAY ON TEST: 629

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Skin	Stomach - Forestomach
Thymus	Trachea	Uterus	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Mineralization	Mild
Kidney	Pelvis	Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 2-15+12			
Liver		Hematopoietic Cell Proliferation Necrosis	Moderate Moderate
Note: NECROSIS TGLs = 1-15.2			
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Renal Mandibular Mediastinal Renal	Congestion Hyperplasia Hyperplasia Hyperplasia	Moderate Glandular, Mild Lymphoid, Mild Lymphoid, Moderate
Note: CONGESTION TGLs = 3-15.1			
Note: MESENTERIC L.N. SLIDE #6			
Note: HYPERPLASIA TGLs = 3-15.1			
Nose	Olfactory Epi	Degeneration	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-1			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5082	TRT#: 6	SEX: Female	DAY ON TEST: 629
	DOSE: 600 PPM	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach		Glandular	Erosion	Minimal
Note: EROSION	TGLs = 7-15.3			
Thyroid Gland		Follicle	Adenoma	
Note: ADENOMA	TGLs = 4-2			
Urinary Bladder			Ectasia	Mild
Note: ECTASIA	TGLs = 5-5.1			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5084

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Parathyroid Gland	Thymus
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic, Mild
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
Liver	Renal Tubule	Regeneration	Minimal
		Hematopoietic Cell Proliferation	Mild
		Alveolar/Bronchiolar Adenoma	
Lung		Infiltration Cellular	Lymphocyte, Mild
		Congestion	Moderate
		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Mild
		Adenocarcinoma	
Nose	Olfactory Epi	Degeneration	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Subcut Tiss	Edema	Mild

Note: REGIONAL

Note: HYPERPLASIA TGLs = 2-15.1

Mammary Gland

Note: ADENOCARC TGLs = 1-15

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5084	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Dead	DAY ON TEST: 708 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: EDEMA	TGLs = 4-7		
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5085 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 731
DOSE: 600 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Glandular	Trachea		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: MILD FIBROSIS IN SKULL			
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Moderate Lymphoid, Moderate
Mammary Gland		Ectasia	Minimal
Nose	Olfactory Epi	Degeneration	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Minimal
Thymus		Hyperplasia	Lymphoid, Moderate
Thyroid Gland	Follicle	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5085

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Uterus

Note: HYPERPLASIA TGLs = 1-5

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:11
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5086 TRT#: 6 SEX: Female DAY ON TEST: 627
 DOSE: 600 PPM DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Capsule, Cortex	Lymphoma Malignant Undifferentiated Cell Type	
	Cortex	Pigmentation	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Gallbladder		Lymphoma Malignant Undifferentiated Cell Type	
Intestine Small	Duodenum	Lymphoma Malignant Undifferentiated Cell Type	
Kidney	Renal Tubule	Dilatation	Mild
		Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF] TGLs = 4-12			
Liver		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF] TGLs = 3-15.4+11			
Lung		Hemorrhage	Mild
		Lymphoma Malignant Undifferentiated Cell Type	
Lymph Node	Iliac	Lymphoma Malignant Undifferentiated Cell Type	
	Mandibular	Lymphoma Malignant Undifferentiated Cell Type	
	Mediastinal	Lymphoma Malignant Undifferentiated Cell Type	
	Mesenteric	Lymphoma Malignant Undifferentiated Cell Type	
	Renal	Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF] TGLs = 6-15.1,7-15.2,8-15.3			
Note: [LYMPH MAL UNDF] TGLs = 5-3.1			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
	Lumen	Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5086	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 627 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Lymphoma Malignant Undifferentiated Cell Type	
Pancreas		Lymphoma Malignant Undifferentiated Cell Type	
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 9-1			
Salivary Glands		Lymphoma Malignant Undifferentiated Cell Type	
Skin		Alopecia	Minimal
[Alopecia TGLS = 1-15]			
Spleen		Lymphoma Malignant Undifferentiated Cell Type	
Note: [LYMPH MAL UNDF] TGLs = 2-12			
Note: CAUSE OF DEATH			
Stomach	Forestomach Glandular	Lymphoma Malignant Undifferentiated Cell Type	
Thymus		Lymphoma Malignant Undifferentiated Cell Type	
Urinary Bladder		Lymphoma Malignant Undifferentiated Cell Type	
Uterus		Lymphoma Malignant Undifferentiated Cell Type	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5087

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Ovary	Skin
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: MODERATE FIBROSIS ALSO IN SKULL			
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Minimal
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Renal Mandibular	Histiocytic Sarcoma Histiocytic Sarcoma Hyperplasia	Lymphoid, Mild
Note: [HISTIO SARC] TGLs = 2-15			
Note: [HISTIO SARC] TGLs = 1-1			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5087	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach	Forestomach Glandular	Histiocytic Sarcoma Pigmentation Infiltration Cellular Infiltration Cellular Infiltration Cellular	Mild Lymphocyte, Mild Lymphocyte, Mild Lymphocyte, Mild
Urinary Bladder			
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5088

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation Mineralization	Mild Mild Mild
Brain			
Heart		Lymphoma Malignant Mixed	
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-11			
Note: CAUSE OF DEATH			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 1-7			
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-12			
Stomach	Glandular	Erosion	Mild
Note: EROSION TGLs = 4-15			
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5090

TRT#: 6

SEX: Female

DAY ON TEST: 505

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Mild Mild
Liver		Infiltration Cellular Fatty Change Vacuolization Cytoplasmic	Lymphocyte, Mild Mild Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular	Hyperplasia Pigmentation	Lymphoid, Mild Mild
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Minimal Minimal
Spleen		Pigmentation	Minimal
Uterus	Endometrium	Inflammation	Acute, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:11
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5091

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Skin	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow		Fibrosis	Minimal
Brain		Compression Mineralization	Mild
Note: COMPRESSION DUE TO PITUITARY MASS			
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Regeneration	Minimal
Liver		Infiltration Cellular	Lymphocyte, Minimal
Lung		Congestion Hemorrhage	Mild Mild
		Infiltration Cellular	Lymphocyte, Mild
	Pleura	Inflammation	Chronic, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Mammary Gland		Ectasia	Moderate
Nose	Respirat Epith Lumen	Degeneration Hemorrhage	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5091	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland [Adenoma TGLS = 1-1]	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Inflammation	Acute, Minimal
Thymus		Ectopic Thyroid	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5093

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic

Blood Vessel
Heart
Intestine Small - Duodenum
Mammary Gland

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Stomach - Forestomach

Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Moderate
Mild

Note: MODERATE FIBROSIS IN SKULL

Brain

Mineralization

Mild

Kidney

Renal Tubule

Dilatation
Infiltration Cellular

Mild
Lymphocyte, Mild

Renal Tubule

Regeneration
Hematopoietic Cell Proliferation

Minimal
Minimal

Liver

Lung

Lymph Node

Mandibular
Mesenteric

Hyperplasia
Hyperplasia

Lymphoid, Moderate
Lymphoid, Moderate

Nose

Olfactory Epi
Lumen

Degeneration
Hemorrhage

Mild
Mild

Ovary

Periovarn Tiss

Cyst

Note: CYST TGLs = 2-5

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Skeletal Muscle

Head

Inflammation

Acute, Mild

Note: SLIDE 14B

Skin

Alopecia

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5093	TRT#: 6 DOSE: 600 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: ALOPECIA	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thymus		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Adenoma Inflammation	Chronic, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 3-5		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5095

TRT#: 6

SEX: Female

DAY ON TEST: 601

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Ovary
Pancreas	Parathyroid Gland	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Hemorrhage	Mild
		Lymphoma Malignant Mixed	
		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
		Metaplasia	Osseous, Mild
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-11, 5-11			
Lung		Hemorrhage	Mild
		Lymphoma Malignant Mixed	
Note: HEMORRHAGE TGLs = 1-4 [Hemorrhage TGLS = 1-4]			
Lymph Node		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 6-1			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant Mixed	
Note: CAUSE OF DEATH			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5095

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 601
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL MIXD TGLs = 2-11+15,3-11+15

Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5096

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Note: MILD FIBROSIS IN SKULL			
Brain		Mineralization	Moderate
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
Liver		Regeneration	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 1-15+11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Lymphoma Malignant Mixed	Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi	Degeneration	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Spleen		Hematopoietic Cell Proliferation Hyperplasia	Mild Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5096

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus
Urinary Bladder
Uterus

Endometrium

Pigmentation
Hyperplasia
Infiltration Cellular
Hyperplasia

Mild
Lymphoid, Mild
Lymphocyte, Mild
Cystic, Marked

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5097

TRT#: 6

SEX: Female

DAY ON TEST: 650

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation Mineralization	Mild Mild Mild
Brain		Inflammation	Acute, Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Congestion	Moderate
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Nasolacrim Dct	Degeneration Inflammation	Mild Acute, Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Head	Ulcer	Moderate
Spleen		Pigmentation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5097

TRT#: 6

SEX: Female

DAY ON TEST: 650

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH UNKNOWN

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5098

TRT#: 6

SEX: Female

DAY ON TEST: 713

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Blood Vessel
Gallbladder
Intestine Small - Duodenum
Skin

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Stomach - Forestomach

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Moderate
Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Lymphoma Malignant Mixed

Liver

Hematopoietic Cell Proliferation

Mild

Lung

Lymphoma Malignant Mixed

Congestion

Mild

Alveolar Epith

Hyperplasia

Mild

Lymph Node

Mandibular

Lymphoma Malignant Mixed

Hyperplasia

Lymphoid, Mild

Iliac

Lymphoma Malignant Mixed

Mediastinal

Lymphoma Malignant Mixed

Mesenteric

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 4-15.1

Note: CAUSE OF DEATH LYMPH MAL MIXD

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi

Degeneration

Mild

Lumen

Hemorrhage

Moderate

Nasolacrim Dct

Inflammation

Acute, Mild

Ovary

Lymphoma Malignant Mixed

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5098

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 713
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Lymphoma Malignant Mixed	
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Stomach	Glandular	Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Lymphoma Malignant Mixed	
		Polyp Stromal	

Note: POLYP STROMAL TGLs = 3-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5100

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Pancreas	Pituitary Gland
Skin	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Mild
	Myeloid Cell	Hyperplasia	Mild
Note: MILD FIBROSIS ALSO IN SKULL			
Harderian Gland		Adenoma	
	[Adenoma TGLS = 1-15]		
Heart		Inflammation	Acute, Minimal
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Nasolacrim Dct	Inflammation	Acute, Moderate
Ovary		Inflammation	Acute, Marked
	[Inflammation TGLS = 2-5]		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5100

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Hyperplasia	Lymphoid, Mild
	Glandular	Pigmentation	Minimal
		Inflammation	Chronic Active, Mild
Thymus		Inflammation	Chronic Active, Mild
Urinary Bladder		Hyperplasia	Lymphoid, Moderate
Uterus	Endometrium	Infiltration Cellular	Lymphocyte, Mild
		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5101

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Skin	Trachea		

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: MINIMAL FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Inflammation	Chronic Active, Moderate
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Lymphoma Malignant Mixed Regeneration	Minimal
Note: LYMPH MAL MIXD TGLs = 3-12			
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-11+15			
Lung		Infiltration Cellular Lymphoma Malignant Mixed	Lymphocyte, Mild
Note: LYMPH MAL MIXD TGLs = 7-15.4			
Lymph Node	Iliac Mandibular Mesenteric Renal	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL ALSO IN HEPATIC L.N.			
Note: LYMPH MAL MIXD TGLs = 4-15.1,5-15.2,6-15.3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5101 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 732
DOSE: 600 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Ectasia	Minimal
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 1-12]			
Stomach	Glandular, Mucosa	Dilatation	Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Dilatation	Mild
	C Cell	Hyperplasia	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Inflammation	Acute, Moderate

Note: INFLAMMATION TGLs = 8-15.5+5

Note: HYPERPLASIA TGLs = 8-15.5+5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5102

TRT#: 6

SEX: Female

DAY ON TEST: 653

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Gallbladder		Lymphoma Malignant Mixed	
Intestine Small	Ileum	Amyloid Deposition	Moderate
Kidney		Lymphoma Malignant Mixed	
		Metaplasia	Osseous, Mild
Note: LYMPH MAL MIXD	TGLs = 2-15.1+12		
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 1-15+11		
Note: CAUSE OF DEATH			
Lung	Peribronchiolr	Inflammation	Acute, Marked
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 5-4+15.4,6-4+15.4		
Note: INFLAMMATION	TGLs = 5-4+15.4,6-4+15.4		
Lymph Node	Iliac	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 7-15.5		
Note: LYMPH MAL MIXD	TGLs = 3-15.2		
Note: LYMPH MAL MIXD	TGLs = 4-15.3		
Nose	Olfactory Epi	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5102

TRT#: 6

SEX: Female

DAY ON TEST: 653

DOSE: 600 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen	Lumen	Hemorrhage Hematopoietic Cell Proliferation Pigmentation	Mild Mild Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5103

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 600 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Ovary

Skin

Thymus

Thyroid Gland

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Mild

Myeloid Cell

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule

Casts Protein

Mild

Renal Tubule

Dilatation

Mild

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Necrosis

Mild

Renal Tubule

Regeneration

Mild

Liver

Hematopoietic Cell Proliferation

Mild

Hepatocellular Adenoma

Note: HEPATOCLR ADEN TGLs = 2-15

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Mesenteric

Hyperplasia

Lymphoid, Mild

Hyperplasia

Lymphoid, Moderate

Note: HEPACTIC L.N. HYPERPLASTIC

Nose

Olfactory Epi

Degeneration

Mild

Pancreas

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5103

TRT#: 6
DOSE: 600 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland Note: ADENOMA TGLs = 3-1	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Minimal
		Pigmentation	Mild
Stomach	Glandular, Mucosa	Dilatation	Mild
	Forestomach	Hyperplasia	Squamous, Focal, Marked
	Forestomach	Hyperplasia	Squamous, Mild
	Forestomach	Ulcer	Mild
Note: HYPERPLASIA TGLs = 4-15.2 Note: [HYPERPLASIA] TGLs = 4-6			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus Note: HYPERPLASIA TGLs = 1-5+15.3	Endometrium	Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5104

TRT#: 6

SEX: Female

DAY ON TEST: 660

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
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	Ovary
Parathyroid Gland	Thymus	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Moderate Mild
Kidney	Renal Tubule Renal Tubule	Infiltration Cellular Necrosis Regeneration	Lymphocyte, Mild Minimal Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Moderate Lymphoid, Mild
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Mild Mild
Oviduct		Inflammation	Acute, Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
Note: ALOPECIA	TGLs = 1-15		
Spleen		Pigmentation	Mild
Stomach	Glandular Forestomach	Infiltration Cellular Inflammation	Lymphocyte, Mild Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5104

TRT#: 6

SEX: Female

DAY ON TEST: 660

DOSE: 600 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Follicle

Adenoma

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

Uterus

Endometrium

Hyperplasia

Cystic, Mild

Endometrium

Inflammation

Acute, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5166

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Colon	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Pituitary Gland	Skin
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Lymphoma Malignant Lymphocytic	
Heart		Lymphoma Malignant Lymphocytic	
Intestine Large	Cecum Rectum	Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic	
Intestine Small	Duodenum	Lymphoma Malignant Lymphocytic	
Kidney	Renal Tubule Renal Tubule Renal Tubule	Dilatation Infiltration Cellular Necrosis Regeneration	Mild Lymphocyte, Mild Minimal Mild
Liver		Hepatocellular Carcinoma Lymphoma Malignant Lymphocytic	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 9-4,15.3			
Lymph Node	Mandibular Mediastinal Mesenteric Renal	Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 2-15.4,4-3.1,5-15.1,7-15.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5166 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 730
DOSE: 1200 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEPATIC			
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Marked
Ovary		Lymphoma Malignant Lymphocytic	
Pancreas		Lymphoma Malignant Lymphocytic	
Salivary Glands		Lymphoma Malignant Lymphocytic	
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Lymphocytic	
		Pigmentation	Minimal
Note: HEMA CELL PROL	TGLs = 3-12		
Note: LYMPH MAL LYMP	TGLs = 3-12		
Stomach	Forestomach	Lymphoma Malignant Lymphocytic	
	Glandular	Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP	TGLs = 8-6		
Note: LYMPH MAL LYMP	TGLs = 8-6		
Thymus		Cyst	Mild
		Lymphoma Malignant Lymphocytic	
Urinary Bladder		Lymphoma Malignant Lymphocytic	
Uterus		Lymphoma Malignant Lymphocytic	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5167

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Salivary Glands	Skin	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Marked Mild
Note: FIBROSIS ALSO IN SKULL			
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular Metaplasia	Lymphocyte, Mild Osseous, Mild
Lung	Renal Tubule Alveolar Epith	Regeneration Hyperplasia Infiltration Cellular	Minimal Mild Lymphocyte, Mild
Note: HYPERPLASIA TGLs = 5-15			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Mild Mild
Note: LYMPH MAL MIXD TGLs = 1-12			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5167

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach Glandular Forestomach	Hyperplasia Infiltration Cellular Inflammation	Squamous, Mild Lymphocyte, Minimal Chronic Active, Mild
Note: INFLAMMATION	TGLs = 6-6+15.2		
Note: HYPERPLASIA	TGLs = 6-15.2		
Note: SECTION ADEQUATE NO RECUT OR RETRIM NEEDED			
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium Endometrium	Hyperplasia Polyp Stromal	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 2-5+15		
Note: POLYP STROMAL	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5168

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Skin

Blood Vessel
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Forestomach

Bone
Gallbladder
Intestine Small - Duodenum
Mammary Gland
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Ovary

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation
Adenoma
Inflammation

Mild
Mild

Chronic Active, Moderate

Note: INFLAMMATION TGLs = 2-15

Note: ADENOMA TGLs = 2-15

Heart

Infiltration Cellular

Lymphocyte, Mild

Kidney

Infiltration Cellular

Lymphocyte, Mild

Metaplasia

Osseous, Mild

Liver

Hematopoietic Cell Proliferation

Minimal

Lung

Infiltration Cellular

Lymphocyte, Mild

Hemorrhage

Mild

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Moderate

Mesenteric

Lymphoma Malignant Mixed

Nose

Olfactory Epi

Degeneration

Mild

Lumen

Hemorrhage

Mild

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Hematopoietic Cell Proliferation

Mild

Lymphoma Malignant Mixed

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5168

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL MIXD TGLs = 1-12

Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Hyperplasia	Lymphoid, Mild
Trachea		Hemorrhage	Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5170

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
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	Pancreas
Pituitary Gland	Salivary Glands	Skin	Thymus
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule Renal Tubule Renal Tubule	Casts Protein Dilatation Infiltration Cellular Regeneration	Minimal Minimal Lymphocyte, Mild Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung		Congestion Hepatocellular Carcinoma Infiltration Cellular	Mild Metastatic (Liver) Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular Mesenteric	Angiectasis Hyperplasia Inflammation	Mild Lymphoid, Mild Acute, Mild
Note: REGIONAL - INFLAMMATION			
Nose	Olfactory Epi Nasolacrim Dct	Degeneration Inflammation	Mild Acute, Mild
Ovary		Hemangioma	
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5170

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Glandular
Forestomach
Forestomach

Infiltration Cellular
Inflammation
Squamous Cell Papilloma

Lymphocyte, Mild
Chronic Active, Moderate

Note: GLANDULAR SECTION ADEQUATE NO RECUT OR RETRIM NEEDED

Note: INFLAMMATION TGLs = 2-15.1+6

Note: ANGIECTASIS TGLs = 2-15.1

Note: SQ CL PAPILLOM TGLs = 2-15

Thyroid Gland

Follicle

Dilatation

Mild

Urinary Bladder

Inflammation

Acute, Mild

Uterus

Infiltration Cellular

Lymphocyte, Mild

Angiectasis

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5171

TRT#: 7

SEX: Female

DAY ON TEST: 594

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Infiltration Cellular	Lymphocyte, Mild
Note: ALV BRON CARC TGLs = 1-15			
Note: CAUSE OF DEATH--CARCINOMA			
Lymph Node	Mediastinal	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
	Forestomach	Ulcer	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5171

TRT#: 7
DOSE: 1200 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 594
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5172

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Blood Vessel
Heart
Intestine Small - Duodenum
Parathyroid Gland

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Skin

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Thymus

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Mild
Mild

Note: FIBROSIS ALSO IN SKULL

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Kidney

Infiltration Cellular

Lymphocyte, Moderate

Liver

Infiltration Cellular

Lymphocyte, Mild

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular
Mesenteric

Hyperplasia
Hyperplasia

Lymphoid, Mild
Lymphoid, Mild

Mammary Gland

Ectasia

Minimal

Nose

Olfactory Epi
Lumen

Degeneration
Hemorrhage

Mild
Minimal

Ovary

Periovarn Tiss

Cyst

Marked

Note: CYST TGLs = 1-5

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 3-1

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Hematopoietic Cell Proliferation
Hyperplasia
Pigmentation

Mild
Lymphoid, Mild
Minimal

Stomach

Glandular, Mucosa

Dilatation

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5172

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Glandular
Forestomach

Infiltration Cellular
Inflammation

Lymphocyte, Minimal
Acute, Moderate

Note: SECTION ADEQUATE NO RECUT OR RETRIM NEEDED

Thyroid Gland

Infiltration Cellular

Lymphocyte, Minimal

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5173

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Skin

Thymus

Thyroid Gland

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex

Adenoma

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Mild

Myeloid Cell

Hyperplasia

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Moderate

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Infiltration Cellular

Lymphocyte, Mild

Liver

Hematopoietic Cell Proliferation

Mild

Infiltration Cellular

Lymphocyte, Mild

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mesenteric

Congestion

Mild

Mandibular

Hyperplasia

Lymphoid, Moderate

Mesenteric

Hyperplasia

Lymphoid, Moderate

Note: REGIONAL - HYPERPLASIA

Mammary Gland

Ectasia

Mild

Nose

Respirat Epith

Degeneration

Mild

Lumen

Hemorrhage

Mild

Ovary

Hemorrhage

Marked

Note: HEMORRHAGE TGLs = 4-15.3

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5173

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hemangiosarcoma	Metastatic (Uterus)
		Hematopoietic Cell Proliferation	Moderate
Note: HEMANGIOSARC	TGLs = 1-12+15,2-15		
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Inflammation	Acute, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hemangiosarcoma	
		Hyperplasia	Cystic, Marked
Note: HEMANGIOSARC	TGLs = 3-15.1+15.2		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5174

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Salivary Glands

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Skin

Bone
Intestine Large - Rectum
Islets, Pancreatic
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Ovary
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Minimal

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Minimal
Mild

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule
Renal Tubule

Casts Protein
Dilatation

Minimal
Minimal

Liver

Infiltration Cellular
Infiltration Cellular
Inflammation

Lymphocyte, Mild
Lymphocyte, Mild
Acute, Minimal

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular
Mesenteric

Hyperplasia
Hyperplasia

Lymphoid, Mild
Lymphoid, Mild

Mammary Gland

Ectasia

Minimal

Nose

Olfactory Epi

Degeneration

Mild

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 1-1

Spleen

Hematopoietic Cell Proliferation
Hyperplasia
Pigmentation

Mild
Lymphoid, Mild
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5174

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Mucosa	Dilatation	Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-15]			
Thymus		Hyperplasia	Lymphoid, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5175

TRT#: 7

SEX: Female

DAY ON TEST: 716

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary	Pancreas
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Harderian Gland		Hyperplasia Inflammation	Mild Acute, Marked
Note: INFLAMMATION TGLs = 3-15.1			
Kidney	Renal Tubule Renal Tubule Renal Tubule	Dilatation Infiltration Cellular Necrosis Regeneration	Minimal Lymphocyte, Mild Minimal Mild
Liver		Bile Stasis Hepatocellular Carcinoma Inflammation	Mild Chronic Active, Moderate
Note: CAUSE OF DEATH --CARCINOMA			
Note: HEPATOCLR CARC TGLs = 4-15			
Lung		Congestion Infiltration Cellular	Moderate Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular Mesenteric	Hemorrhage Hyperplasia Hyperplasia	Marked Lymphoid, Mild Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5175	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 716 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Pituitary Gland	Pars Intermed	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
[Hematopoietic Cell Proliferation TGLS = 2-12]			
Stomach	Forestomach	Inflammation	Chronic, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5178

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Mammary Gland

Skin

Thymus

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Moderate

Myeloid Cell

Hyperplasia

Mild

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule

Dilatation

Minimal

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Regeneration

Minimal

Liver

Hematopoietic Cell Proliferation

Mild

Infiltration Cellular

Lymphocyte, Minimal

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mesenteric

Inflammation

Acute, Moderate

Note: IMFLAMMATION ALSO IN REGIONAL L.N.

Nose

Respirat Epith

Degeneration

Minimal

Lumen

Hemorrhage

Mild

Ovary

Hemorrhage

Marked

Inflammation

Acute, Marked

Note: INFLAMMATION TGLs = 3-15+15.1

Note: HEMORRHAGE TGLs = 4-15.1

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5178

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5-1

Salivary Glands

Spleen

Infiltration Cellular

Hematopoietic Cell Proliferation

Hyperplasia

Pigmentation

Lymphocyte, Mild

Moderate

Lymphoid, Mild

Mild

[Hematopoietic Cell Proliferation TGLS = 1-12]

[Hyperplasia TGLS = 1-12]

Stomach

Glandular, Mucosa

Forestomach

Dilatation

Inflammation

Inflammation

Infiltration Cellular

Hyperplasia

Inflammation

Mild

Acute, Minimal

Chronic Active, Mild

Lymphocyte, Mild

Cystic, Mild

Acute, Moderate

Thyroid Gland

Urinary Bladder

Uterus

Endometrium

Endometrium

Note: INFLAMMATION TGLs = 2-5

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5179

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Skin	Stomach - Forestomach	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: FIBROSIS IN SKULL ONLY			
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
Liver	Renal Tubule	Regeneration	Minimal
		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Lymphocyte, Mild
		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular	Inflammation	Acute, Mild
	Mesenteric	Degeneration	Mild
Nose	Olfactory Epi Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-1]		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5179

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Inflammation	Acute, Mild
	Note: DILATATION TGLs = 3-6+15 [Inflammation TGLS = 3-6+15]		
Thymus		Cyst	Mild
		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Dilatation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Note: HYPERPLASIA TGLs = 2-5		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5180

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Trachea

Blood Vessel
Heart
Intestine Small - Duodenum
Mammary Gland

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Skin

Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Thymus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex
Cortex

Hyperplasia
Hypertrophy
Pigmentation

Moderate
Mild
Mild

Bone Marrow

Myeloid Cell

Hyperplasia

Mild

Brain

Mineralization

Mild

Intestine Large

Anus

Erosion

Mild

Kidney

Renal Tubule

Dilatation

Mild

Liver

Infiltration Cellular

Lymphocyte, Mild

Hematopoietic Cell Proliferation

Mild

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Infiltration Cellular

Lymphocyte, Mild

Hyperplasia

Lymphoid, Mild

Mesenteric

Hyperplasia

Lymphoid, Mild

Nose

Olfactory Epi

Degeneration

Minimal

Lumen

Hemorrhage

Mild

Ovary

Inflammation

Acute, Marked

[Inflammation TGLS = 1-15.2]

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Hematopoietic Cell Proliferation

Moderate

Pigmentation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5180

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Mucosa	Dilatation	Mild
	Forestomach	Erosion	Mild
	Forestomach	Hyperplasia	Squamous, Mild
	Forestomach	Inflammation	Acute, Moderate
Note: SECT. ADEQUETE NO RECUT OR RETRIM NEEDED			
Note: INFLAMMATION TGLs = 3-15.1+6			
Note: HYPERPLASIA TGLs = 3-15.1+6			
[Hyperplasia TGLS = 3-15.1]			
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5181

TRT#: 7

SEX: Female

DAY ON TEST: 400

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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	Mammary Gland	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infarct	Marked
		Infiltration Cellular	Lymphocyte, Mild
Note: INFARCT--CAUSE OF DEATH			
Note: INFARCT TGLs = 3-12			
Liver		Hematopoietic Cell Proliferation	Moderate
	Serosa	Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 2-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Inflammation	Acute, Moderate
Note: MEDIASTINAL IN SLIDE11			
Nose	Olfactory Epi	Degeneration	Mild
Ovary		Mineralization	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 1-12			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5183

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: FIBROSIS IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion Infiltration Cellular	Mild Lymphocyte, Mild
Lymph Node	Mesenteric	Inflammation	Acute, Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Stomach	Glandular, Mucosa	Dilatation	Mild
Note: DILATATION TGLs = 2-15.1			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5183

TRT#: 7
DOSE: 1200 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 1-5+15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:11
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5184

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Mammary Gland	Parathyroid Gland
Skin	Stomach - Glandular	Trachea	

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Compression	Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Note: FATTY CHANGE TGLs = 1-11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular Mesenteric	Congestion Hyperplasia Hyperplasia	Mild Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
Ovary		Hyperplasia	Adenomatous, Moderate
Note: HYPERPLASIA TGLs = 2-5			
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
Stomach	Forestomach	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 4-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5184	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Thymus		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5186

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Ovary

Skin

Thyroid Gland

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Myeloid Cell

Hyperplasia

Mild

Brain

Mineralization

Mild

Harderian Gland

Carcinoma

Note: [CARCINOMA] TGLs = 1-15.4

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Lymphoma Malignant Lymphocytic

Liver

Hematopoietic Cell Proliferation

Mild

Hepatocellular Adenoma

Lymphoma Malignant Lymphocytic

Note: HEPATOCLR ADEN TGLs = 7-11+15.2

Note: ADENOMA IN 2 SITES

Lung

Carcinoma

Metastatic (Uncertain Primary Site)

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Lymphoma Malignant Lymphocytic

Note: [CARCINOMA] TGLs = 9-15

Note: PRIMARY SITE IS HARDERIAN GLAND.

Lymph Node

Mandibular

Lymphoma Malignant Lymphocytic

Mesenteric

Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 4-1,5-3.1

Mammary Gland

Ectasia

Moderate

Nose

Olfactory Epi

Degeneration

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5186	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Nasolacrim Dct	Inflammation	Acute, Moderate
Pituitary Gland	Pars Distalis	Infiltration Cellular	Lymphocyte, Mild
Note: ADENOMA TGLs = 2-1		Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 3-12			
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
	Forestomach	Inflammation	Acute, Mild
Note: SECTION ADEQUATE NO RECUT OR RETRIM NEEDED			
Thymus		Lymphoma Malignant Lymphocytic	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 6-5			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5187

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
Lung	Alveolus	Alveolar/Bronchiolar Carcinoma Infiltration Cellular Infiltration Cellular	Histiocyte, Marked Lymphocyte, Mild
Note: ALV BRON CARC	TGLs = 2-4+15.2,3-4+15.2		
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Note: REGIONAL			
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Mild
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 1-12		
Stomach	Glandular	Inflammation	Acute, Minimal
Note: SECTION ADEQUATE NO RECUT OR RETRIM NEEDED			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5187	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
	Endometrium	Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5188

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
 Intestine Large - Colon
 Intestine Small - Jejunum
 Trachea

Blood Vessel
 Intestine Large - Rectum
 Islets, Pancreatic

Bone
 Intestine Small - Duodenum
 Salivary Glands

Esophagus
 Intestine Small - Ileum
 Skin

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
 Cortex

Hyperplasia
 Pigmentation

Mild
 Mild

Bone Marrow

Myeloid Cell

Fibrosis
 Hyperplasia

Mild
 Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Hippocampus

Cyst
 Mineralization
 Inflammation

Mild
 Chronic Active, Moderate

Gallbladder

Heart

Infiltration Cellular

Lymphocyte, Minimal

Intestine Large

Cecum

Lymphoma Malignant Histiocytic

Kidney

Renal Tubule

Dilatation
 Lymphoma Malignant Histiocytic

Minimal

Note: LYMPH MAL HIST TGLs = 9-12

Liver

Hematopoietic Cell Proliferation
 Lymphoma Malignant Histiocytic

Mild

Lung

Infiltration Cellular
 Lymphoma Malignant Histiocytic

Lymphocyte, Mild

Lymph Node

Iliac
 Mandibular
 Mediastinal
 Mesenteric
 Renal

Lymphoma Malignant Histiocytic
 Lymphoma Malignant Histiocytic
 Lymphoma Malignant Histiocytic
 Lymphoma Malignant Histiocytic
 Lymphoma Malignant Histiocytic

Note: LYMPH MAL HIST TGLs = 1-3.1,2-1,3-15,4-15.2,5-15.3

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5188 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 730
DOSE: 1200 PPM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL HIST TGLs = 8-15.1			
Mammary Gland		Ectasia	Moderate
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
	Olfactory Epi	Inflammation	Acute, Mild
Ovary		Lymphoma Malignant Histiocytic	
Pancreas		Lymphoma Malignant Histiocytic	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 10-1			
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Histiocytic	
[Hematopoietic Cell Proliferation TGLS = 6-12]			
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Minimal
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Lymphoma Malignant Histiocytic	
Thymus		Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST TGLs = 7-3			
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Lymphoma Malignant Histiocytic	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5189

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Ovary

Skin

Stomach - Forestomach

Thymus

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Hypertrophy

Diffuse, Mild

Cortex

Pigmentation

Mild

Bone Marrow

Myeloid Cell

Fibrous Osteodystrophy

Minimal

Brain

Hyperplasia

Mild

Infiltration Cellular

Lymphocyte, Mild

Mineralization

Mild

Intestine Large

Rectum

Inflammation

Acute, Moderate

Kidney

Renal Tubule

Casts Protein

Minimal

Renal Tubule

Dilatation

Minimal

Liver

Lymphoma Malignant Mixed

Minimal

Hematopoietic Cell Proliferation

Infiltration Cellular

Lymphocyte, Mild

Lung

Congestion

Mild

Lymph Node

Mandibular

Lymphoma Malignant Mixed

Lymphoma Malignant Mixed

Mesenteric

Lymphoma Malignant Mixed

Mammary Gland

Ectasia

Moderate

Nose

Olfactory Epi

Metaplasia

Minimal

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 2-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5189

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
	[Hematopoietic Cell Proliferation TGLS = 1-12]		
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Angiectasis	Mild
		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5190

TRT#: 7

SEX: Female

DAY ON TEST: 523

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Mild
	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Heart		Inflammation	Chronic, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Lymphocyte, Mild
	Pleura	Inflammation	Chronic, Moderate
Note: ALV BRON CARC TGLs = 3-4+15.3			
Note: CAUSE OF DEATH--CARCINOMA			
[Inflammation TGLS = 2-15.3+15.1]			
Lymph Node	Mediastinal	Congestion	Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
[Congestion TGLS = 4-15.2]			
[Hyperplasia TGLS = 4-15.2]			
Mammary Gland		Ectasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 1-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5190

TRT#: 7

SEX: Female

DAY ON TEST: 523

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Mild
Thymus	Congestion	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5191

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Pituitary Gland	Skin	Thymus
Thyroid Gland	Trachea		

MISSING

Lymph Node - Mandibular	Parathyroid Gland	Salivary Glands
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Intestine Large	Anus	Inflammation	Acute, Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Regeneration	Minimal
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Iliac	Congestion Hyperplasia	Mild Lymphoid, Mild
Note: HYPERPLASIA TGLs = 3-15.1			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Ovary		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-5			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5191	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach	Glandular, Mucosa Glandular Forestomach	Pigmentation Dilatation Infiltration Cellular Inflammation	Minimal Mild Lymphocyte, Mild Chronic Active, Minimal
Note: DILATATION TGLs = 1-15			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium Endometrium	Hyperplasia Inflammation	Cystic, Moderate Acute, Marked

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5192

TRT#: 7

SEX: Female

DAY ON TEST: 670

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Uterus

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone	Femur	Fracture	
Note: BONE LYSIS DUE TO HEMANGIOSARCOMA			
Bone Marrow	Myeloid Cell	Hemangiosarcoma Hyperplasia	Metastatic (Ovary) Mild
Brain		Mineralization	Mild
Heart		Hemangiosarcoma	Metastatic (Ovary)
Intestine Small	Jejunum Jejunum Jejunum	Infiltration Cellular Diverticulum Lymphoma Malignant Undifferentiated Cell Type Necrosis	Lymphocyte, Minimal Marked Marked
Note: DIVERTICULUM TGLs = 3-15.1			
Note: [LYMPH MAL UNDF] TGLs = 3-15.1			
Kidney	Renal Tubule	Dilatation Lymphoma Malignant Undifferentiated Cell Type	Minimal
Liver		Hematopoietic Cell Proliferation Lymphoma Malignant Undifferentiated Cell Type Necrosis	Mild Moderate
Note: [LYMPH MAL UNDF] TGLs = 4-15.2			
Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Moderate Lymphocyte, Mild
Note: HYPERPLASIA TGLs = 6-15.4			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5192

TRT#: 7

SEX: Female

DAY ON TEST: 670

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric

Lymphoma Malignant Undifferentiated Cell Type

Lymphoma Malignant Undifferentiated Cell Type

Note: MAL. LYMPHOMA IN HEPATIC L.N.

Note: [LYMPH MAL UNDF] TGLs = 2-1

Note: [LYMPH MAL UNDF] TGLs = 5-15.3

Nose

Olfactory Epi

Degeneration

Mild

Respirat Epith

Degeneration

Minimal

Ovary

Hemangiosarcoma

Skin

Subcut Tiss

Inflammation

Acute, Moderate

Spleen

Hematopoietic Cell Proliferation

Moderate

Lymphoma Malignant Undifferentiated Cell Type

Note: CAUSE OF DEATH--MAL. LYMPHOMA

Note: [LYMPH MAL UNDF] TGLs = 1-15

Stomach

Glandular, Mucosa

Dilatation

Mild

Glandular

Infiltration Cellular

Lymphocyte, Mild

Glandular

Mineralization

Mild

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5194

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Ovary

Skin

Thymus

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Hypertrophy

Mild

Bone Marrow

Fibrous Osteodystrophy

Moderate

Note: FIBROUS OSTEODYSTROPHY ALSO IN SKULL

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Infiltration Cellular

Lymphocyte, Mild

Liver

Infiltration Cellular

Lymphocyte, Minimal

Lung

Alveolar Epith

Hyperplasia

Mild

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Mesenteric

Inflammation

Acute, Mild

Nose

Olfactory Epi

Inflammation

Acute, Minimal

Pancreas

Acinus

Atrophy

Mild

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

Salivary Glands

Infiltration Cellular

Lymphocyte, Moderate

Spleen

Hematopoietic Cell Proliferation

Mild

Hyperplasia

Lymphoid, Mild

Pigmentation

Mild

Stomach

Glandular, Mucosa

Dilatation

Mild

Forestomach

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5194

TRT#: 7
DOSE: 1200 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder	Follicle	Hyperplasia	Mild
Uterus	Endometrium	Infiltration Cellular	Lymphocyte, Moderate
		Hyperplasia	Cystic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5195

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Brain	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	Mammary Gland	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Medulla Cortex	Hyperplasia Pheochromocytoma Nos Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Moderate Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mesenteric	Congestion Hyperplasia	Moderate Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Ovary	Periovarn Tiss	Cyst	
Note: CYST TGLs = 2-5			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Stomach	Forestomach	Hyperplasia	Squamous, Focal, Marked
Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5195

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5196

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Pituitary Gland	Skin	Stomach - Forestomach
Thymus	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Moderate Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Moderate
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Heart		Hemangiosarcoma Infiltration Cellular	
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation Infiltration Cellular	Lymphocyte, Mild Minimal Mild
Liver		Hematopoietic Cell Proliferation Hepatocellular Adenoma Infiltration Cellular Necrosis	Lymphocyte, Moderate Marked Mild
Note: HEPATOCLR ADEN TGLs = 7-15.6			
Lung	Alveolar Epith Interstitium	Alveolar/Bronchiolar Adenoma Hyperplasia Infiltration Cellular Inflammation	Minimal Lymphocyte, Mild Acute, Mild
Note: ALV BRON ADEN TGLs = 8-15.5			
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5196

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mandibular	Hyperplasia	Lymphoid, Moderate
Mesenteric	Hyperplasia	Lymphoid, Moderate
Renal	Hyperplasia	Lymphoid, Moderate
Iliac	Inflammation	Acute, Marked
Mandibular	Inflammation	Acute, Marked
Mesenteric	Inflammation	Acute, Marked
Renal	Inflammation	Acute, Marked

Note: INFLAMMATION TGLs = 2-15,4-15.1,5-15.3

Note: HYPERPLASIA TGLs = 2-15,4-15.1,5-15.3

Note: REGIONAL

Mammary Gland

Carcinoma

Note: [CARCINOMA] TGLs = 1-15.2

Nose

Respirat Epith

Degeneration

Minimal

Lumen

Hemorrhage

Moderate

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Angiectasis

Moderate

Hematopoietic Cell Proliferation

Moderate

Hyperplasia

Lymphoid, Moderate

Note: HYPERPLASIA TGLs = 3-12

Note: HEMA CELL PROL TGLs = 3-12

Note: ANGIECTASIS TGLs = 3-12

Stomach

Glandular, Mucosa

Dilatation

Mild

Glandular

Infiltration Cellular

Lymphocyte, Mild

Note: INFILTRAT CELL TGLs = 6-6

Thyroid Gland

Inflammation

Chronic Active, Minimal

Urinary Bladder

Infiltration Cellular

Lymphocyte, Moderate

Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5197

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Ovary

Pancreas

Skin

Stomach - Forestomach

Thymus

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Moderate

Myeloid Cell

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Mild

Heart

Infiltration Cellular

Lymphocyte, Mild

Intestine Small

Ileum

Amyloid Deposition

Marked

Kidney

Renal Tubule

Casts Protein

Mild

Renal Tubule

Dilatation

Mild

Renal Tubule

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Necrosis

Minimal

Renal Tubule

Regeneration

Minimal

Liver

Hepatocellular Adenoma

Infiltration Cellular

Lymphocyte, Mild

Note: HEPATOCLR ADEN TGLs = 5-15.1

Lung

Alveolar/Bronchiolar Adenoma

Infiltration Cellular

Lymphocyte, Mild

Note: ALV BRON ADEN TGLs = 3-15

Lymph Node

Mesenteric

Congestion

Mild

Mandibular

Hyperplasia

Lymphoid, Mild

Mesenteric

Hyperplasia

Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5197

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Note: HYPERPLASIA	TGLs = 1-12		
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Note: SECTION ADEQUATE NO RECUT OR RETRIM NEEDED			
Thyroid Gland	Follicle	Dilatation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 2-5		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5198

TRT#: 7

SEX: Female

DAY ON TEST: 82

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Liver
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum	Lymph Node - Mandibular
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Lung		Congestion	Mild
Lymph Node			
Note: MESENTERIC L.N. NORMAL			
Nose	Lumen	Hemorrhage	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 1-5			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5199

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Infiltration Cellular Mineralization	Lymphocyte, Mild Mild
Gallbladder		Inflammation	Acute, Mild
Kidney	Renal Tubule	Dilatation	Minimal
	Renal Tubule	Lymphoma Malignant Mixed Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac Mandibular Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: HEPATIC			
Note: LYMPH MAL MIXD	TGLs = 1-15.2		
Nose	Lumen	Hemorrhage	Mild
Ovary	Periovarn Tiss	Cyst Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 2-15		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5199	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST	TGLs = 3-5		
Pancreas		Inflammation	Chronic Active, Mild
Note: SLIDE 15			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5200

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Pituitary Gland

Skin

Stomach - Glandular

Thymus

MISSING

Gallbladder

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Moderate

Myeloid Cell

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Heart

Infiltration Cellular

Lymphocyte, Mild

Intestine Large

Anorectal Jct

Ulcer

Moderate

Kidney

Renal Tubule

Dilatation

Mild

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Necrosis

Moderate

Renal Tubule

Pigmentation

Mild

Regeneration

Mild

Liver

Hematopoietic Cell Proliferation

Mild

Hepatocellular Adenoma

Hepatocellular Carcinoma

Note: HEPATOCLR CARC TGLs = 1-15

Note: SLIDE 11

Lung

Congestion

Mild

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Congestion

Moderate

Mesenteric

Congestion

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5200

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Mandibular Olfactory Epi Respirat Epith Lumen	Hyperplasia Degeneration Degeneration Hemorrhage	Lymphoid, Mild Mild Mild Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST	TGLs = 2-5		
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Moderate Mild
Stomach	Forestomach Forestomach	Hyperplasia Ulcer	Squamous, Focal, Moderate Moderate
Note: [HYPERPLASIA]	TGLs = 3-15.2+6		
Note: SECTION ADEQUATE NO RECUT OR RETRIM NEEDED			
Note: ULCER	TGLs = 3-6		
Thyroid Gland	Follicle	Dilatation	Moderate
Trachea	Glands	Inflammation	Acute, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5201

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Pancreas	Skin	Thymus
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Cyst	
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Mild
	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
		Mineralization	Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Inflammation	Acute, Minimal
Ovary	Periovarn Tiss	Cyst	
Note: CYST			
TGLs = 2-5			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5201	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach Glandular Forestomach	Pigmentation Erosion Erosion Hyperplasia	Mild Mild Mild Squamous, Moderate
Note: HYPERPLASIA TGLs = 3-15 Note: SECTION ADEQUATE NO RECUT OR RETRIM NEEDED			
Thyroid Gland	Follicle Follicle	Dilatation Hyperplasia	Mild Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 1-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5202

TRT#: 7

SEX: Female

DAY ON TEST: 589

DOSE: 1200 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
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	Mammary Gland	Pancreas
Pituitary Gland	Skin	Stomach - Forestomach	Thyroid Gland
Trachea	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
Note: CAUSE OF DEATH--HEPATOCELL. CA.			
Note: HEPATOCLR CARC TGLs = 2-15			
Lung		Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Lymphocyte, Mild
Note: HEPATOCLR CARC TGLs = 5-4+15.3			
Lymph Node	Mesenteric Mediastinal Mesenteric	Congestion Hyperplasia Hyperplasia	Moderate Lymphoid, Mild Lymphoid, Mild
Note: HYPERPLASIA TGLs = 3-1			
Note: CONGESTION TGLs = 3-1			
[Congestion TGLS = 6-15.2]			
Mesentery		Hepatocellular Carcinoma	Metastatic (Liver)
Note: HEPATOCLR CARC TGLs = 1-15.1			
Nose	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5202

TRT#: 7
DOSE: 1200 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 589
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary	Periovarn Tiss	Cyst	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5203

TRT#: 7

SEX: Female

DAY ON TEST: 621

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
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
Ovary	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Liver		Congestion	Marked
		Hepatocellular Carcinoma	
		Infiltration Cellular	Lymphocyte, Mild
		Necrosis	Mild
Note: CARCINOMA--CAUSE OF DEATH [Congestion TGLS = 3-15.2] [Hepatocellular Carcinoma TGLS = 2-15]			
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: REGIONAL LYMPH NODE NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5203

TRT#: 7
DOSE: 1200 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 621
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Mild
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PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5204

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Skin

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Thymus

Bone
Intestine Large - Rectum
Islets, Pancreatic
Trachea

Esophagus
Intestine Small - Duodenum
Ovary

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Moderate
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Mild
Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule
Renal Tubule

Casts Protein
Dilatation

Minimal
Mild

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Regeneration

Minimal

Liver

Hematopoietic Cell Proliferation

Mild

Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Infiltration Cellular

Lymphocyte, Minimal

Lymph Node

Mandibular
Mesenteric

Hyperplasia
Hyperplasia

Lymphoid, Mild
Lymphoid, Mild

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi
Respirat Epith

Degeneration
Degeneration

Mild
Mild

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 2-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5204

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: SECTION ADEQUATE NO RECUT OR RETRIM NEEDED			
Thyroid Gland	Follicle	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 1-5			
Note: HYPERPLASIA TGLs = 1-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5205

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Pituitary Gland

Blood Vessel
Intestine Large - Rectum
Islets, Pancreatic
Thymus

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Trachea

Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone

Cranium

Inflammation

Chronic Active, Moderate

Bone Marrow

Myeloid Cell

Fibrosis

Moderate

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Hemorrhage
Infiltration Cellular

Mild
Lymphocyte, Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Mild

Kidney

Renal Tubule
Renal Tubule

Casts Protein
Dilatation

Mild
Mild

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Necrosis

Mild

Renal Tubule

Regeneration

Mild

Liver

Hepatocellular Carcinoma
Infiltration Cellular

Lymphocyte, Mild

[Hepatocellular Carcinoma TGLS = 1-15.1]

Lung

Congestion
Hemorrhage
Infiltration Cellular

Mild
Mild
Lymphocyte, Mild

Lymph Node

Mesenteric

Hyperplasia

Lymphoid, Mild

Note: REGIONAL L.N. ALSO HYPERPLASTIC

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5205	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Nose	Lumen	Hemorrhage	Moderate
Ovary	Periovarn Tiss	Cyst	
Note: CYST	TGLs = 2-5		
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 5-15.2]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Forestomach	Hyperplasia	Squamous, Mild
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Forestomach	Ulcer	Moderate
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 3-5		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5207

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Parathyroid Gland	Skin
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation Fibrous Osteodystrophy	Mild Mild Mild
Bone Marrow			
Note: FIBROUS OSTEODYSTROPHY ALSO IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule Renal Tubule Renal Tubule	Casts Protein Dilatation Infiltration Cellular Regeneration Hematopoietic Cell Proliferation	Minimal Minimal Lymphocyte, Mild Minimal Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Respirat Epith Mucosa Olfactory Epi	Degeneration Inflammation Metaplasia	Mild Acute, Mild Moderate
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5207

TRT#: 7
DOSE: 1200 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus [Hyperplasia TGLS = 1-5]	Endometrium	Hyperplasia	Cystic, Moderate
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:11

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5208

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Ovary	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain	Meninges	Inflammation	Acute, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Mild Mild
Liver		Infiltration Cellular Hematopoietic Cell Proliferation	Lymphocyte, Mild Mild
Lung	Alveolus	Alveolar/Bronchiolar Adenoma Infiltration Cellular Infiltration Cellular	Histiocyte, Minimal Lymphocyte, Mild
Note: ALV BRON ADEN	TGLs = 3-15.1		
Lymph Node	Axillary Mandibular Mesenteric	Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type Lymphoma Malignant Undifferentiated Cell Type	
Nose	Respirat Epith Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Subcut Tiss	Hemangiosarcoma	
Note: HEMANGIOSARC	TGLs = 2-15		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5208

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Undifferentiated Cell Type	Moderate
Note: [LYMPH MAL UNDF] TGLs = 1-12			
Stomach			
Note: SECT. ADEQUETE--NO RECUT OR RETRIM REQ'D			
Thymus		Lymphoma Malignant Undifferentiated Cell Type	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:11
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5209

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Mammary Gland	Ovary
Skin	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Mineralization	Mild
Intestine Large	Anus	Inflammation	Chronic Active, Mild
Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Dilatation	Minimal
Liver	Renal Tubule	Infiltration Cellular	Lymphocyte, Mild
		Metaplasia	Osseous, Moderate
		Regeneration	Minimal
		Hematopoietic Cell Proliferation	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Infiltration Cellular	Lymphocyte, Mild
		Hyperplasia	Lymphoid, Moderate
Nose	Mesenteric	Hyperplasia	Lymphoid, Moderate
	Olfactory Epi	Degeneration	Mild
	Mucosa	Inflammation	Acute, Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-1		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5209	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach	Glandular, Mucosa Forestomach Glandular Forestomach Forestomach	Pigmentation Dilatation Infiltration Cellular Infiltration Cellular Inflammation Ulcer	Mild Mild Lymphocyte, Mild Lymphocyte, Mild Acute, Moderate Moderate
Note: ULCER TGLs = 3-15 Note: SECT. ADEQUETE--NO RECUT OR RETRIM REQ'D [Ulcer TGLS = 3-6]			
Thymus		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Hyperplasia Infiltration Cellular	Moderate Lymphocyte, Moderate
Note: HYPERPLASIA TGLs = 1-2 [Hyperplasia TGLS = 1-2]			
Uterus	Endometrium	Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5210

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Ovary	Pancreas
Parathyroid Gland	Skin	Stomach - Forestomach	Thymus
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Mild
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Casts Protein	Minimal
	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 2-15.2,3-15,4-1,5-15.1		
Mammary Gland		Ectasia	Moderate
Nose	Olfactory Epi	Degeneration	Mild
	Mucosa	Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-1		
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5210

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

		Lymphoma Malignant Mixed	
[Hematopoietic Cell Proliferation TGLS = 1-12]			
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: SECT. ADEQUETE--RECUT OR RETRIM NOT REQ'D			
Thyroid Gland	Follicle	Hyperplasia	Marked
		Infiltration Cellular	Lymphocyte, Mild
Note: HYPERPLASIA TGLs = 6-2			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5211

TRT#: 7

SEX: Female

DAY ON TEST: 520

DOSE: 1200 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Lymph Node - Mandibular	Mammary Gland
Ovary	Pancreas	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Mild Mild
Liver		Infiltration Cellular Fatty Change Hepatocellular Adenoma	Lymphocyte, Minimal Mild
Lung	Alveolus	Infiltration Cellular Infiltration Cellular	Histiocyte, Mild Lymphocyte, Mild
Lymph Node	Mediastinal Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Nose	Lumen Mucosa	Hemorrhage Inflammation	Mild Acute, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium Endometrium	Hyperplasia Inflammation	Cystic, Mild Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5211

TRT#: 7

SEX: Female

DAY ON TEST: 520

DOSE: 1200 PPM

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5212

TRT#: 7

SEX: Female

DAY ON TEST: 598

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
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	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Glandular	Thyroid Gland	Trachea	

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Hypertrophy	Mild Mild
Bone Marrow		Fibrosis	Moderate
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Necrosis	Mild
Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Mild
Note: ALV BRON ADEN TGLs = 6-15.1			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi Lumen Mucosa	Degeneration Hemorrhage Inflammation	Mild Mild Acute, Minimal
Ovary		Hemangiosarcoma	Metastatic (Uncertain Primary Site)
Note: HEMANGIOSARC TGLs = 5-15			
Spleen		Hemangiosarcoma Hematopoietic Cell Proliferation Hyperplasia	Moderate Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-12			
Note: CAUSE OF DEATH--HEMANGIOSARCOMA [Hematopoietic Cell Proliferation TGLS = 1-12] [Hyperplasia TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5212	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Dead	DAY ON TEST: 598 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Inflammation	Acute, Minimal
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

Note: HYPERPLASIA TGLs = 4-5

PRIMARY CAUSE OF DEATH -

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5213

TRT#: 7

SEX: Female

DAY ON TEST: 715

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Pancreas	Pituitary Gland
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Medulla	Hyperplasia Pheochromocytoma Nos	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Minimal
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Acute, Minimal
		Metaplasia	Osseous, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
Note: HEPATOCLR ADEN TGLs = 4-15.2			
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Axillary	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Moderate
	Subcut Tiss	Fibrosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5213

TRT#: 7

SEX: Female

DAY ON TEST: 715

DOSE: 1200 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CAUSE OF DEATH--FIBROSARCOMA

Note: FIBROSARC TGLs = 2-15

[Alopecia TGLs = 1-7]

Spleen

Hematopoietic Cell Proliferation

Moderate

Hyperplasia

Lymphoid, Moderate

Pigmentation

Minimal

Note: HEMA CELL PROL TGLs = 3-12

Stomach

Glandular, Mucosa

Dilatation

Mild

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5217

TRT#: 7

SEX: Female

DAY ON TEST: 229

DOSE: 1200 PPM

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone	Cranium	Fracture	
Note: FEMUR NORMAL [Fracture TGLS = 1-14.2]			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Hemorrhage	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Hemorrhage	Marked
		Infiltration Cellular	Lymphocyte, Mild
Note: HEMORRHAGE--CAUSE OF DEATH			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Lumen	Hemorrhage	Mild
[Hemorrhage TGLS = 2-14.1+14.2]			
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Trachea	Lumen	Hemorrhage	Mild
Uterus	Endometrium	Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 3-15			
Note: INCORRECT TISSUE I.D. AT NECROPSY--APPARENTLY.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5217

TRT#: 7
DOSE: 1200 PPM

SEX: Female
DISP: Accident

DAY ON TEST: 229
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5218

TRT#: 7

SEX: Female

DAY ON TEST: 709

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Blood Vessel
Gallbladder
Intestine Small - Duodenum
Mammary Gland
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Trachea

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Moderate
Mild

Heart

Infiltration Cellular
Mineralization

Lymphocyte, Minimal
Mild

Kidney

Histiocytic Sarcoma
Infiltration Cellular

Lymphocyte, Mild

Note: [HISTIO SARC] TGLs = 7-12

Liver

Note: HISTIOCYTIC SARCOMA--CAUSE OF DEATH

Note: [HISTIO SARC] TGLs = 4-11

Histiocytic Sarcoma

Lung

Histiocytic Sarcoma
Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Iliac
Mandibular
Mesenteric

Histiocytic Sarcoma
Hyperplasia
Hyperplasia

Lymphoid, Mild
Lymphoid, Mild

Note: [HISTIO SARC] TGLs = 9-15.1

Nose

Olfactory Epi
Mucosa

Degeneration
Inflammation

Mild
Acute, Mild

Ovary

Histiocytic Sarcoma

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5218	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Dead	DAY ON TEST: 709 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin Note: EDEMA TGLs = 1-7	Subcut Tiss	Edema	Mild
Spleen		Hematopoietic Cell Proliferation Histiocytic Sarcoma Pigmentation	Mild Minimal
Stomach	Glandular	Erosion	Mild
Uterus	Endometrium	Histiocytic Sarcoma Hyperplasia	Cystic, Mild

Note: CAUSE OF DEATH
Note: [HISTIO SARC] TGLs = 8-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5221

TRT#: 7

SEX: Female

DAY ON TEST: 696

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary	Stomach - Forestomach
Thymus	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrous Osteodystrophy	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
		Osteosarcoma	Metastatic (Uncertain Primary Site)
Liver		Vacuolization Cytoplasmic	Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
		Osteosarcoma	Metastatic (Uncertain Primary Site)
Note: OSTEOSARC TGLs = 3-15+4			
Note: OSTEOSARC.--CAUSE OF DEATH			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
	Mesenteric	Osteosarcoma	Metastatic (Uncertain Primary Site)
Mesentery		Osteosarcoma	Metastatic (Uncertain Primary Site)
Nose	Olfactory Epi	Degeneration	Mild
	Olfactory Epi	Metaplasia	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Skin	Subcut Tiss	Hemangioma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5221

TRT#: 7

SEX: Female

DAY ON TEST: 696

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SL			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	Follicle	Hyperplasia	Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA	TGLs = 5-5		

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5222

TRT#: 7

SEX: Female

DAY ON TEST: 3

DOSE: 1200 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Clitoral Gland	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Rectum	Lymph Node - Mandibular	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Lung		Infiltration Cellular	Lymphocyte, Minimal
Nose	Lumen	Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5223

TRT#: 7

SEX: Female

DAY ON TEST: 732

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Parathyroid Gland

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Skin

Bone
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Forestomach

Esophagus
Intestine Small - Duodenum
Ovary
Trachea

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Minimal
Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Lymphoma Malignant Mixed

Note: [LYMPH MAL MIXD] TGLs = 2-15.2+12

Liver

Fatty Change
Hematopoietic Cell Proliferation
Hepatocellular Adenoma
Infiltration Cellular

Minimal
Mild
Lymphocyte, Minimal

[Hepatocellular Adenoma TGLS = 1-15]

Lung

Hemorrhage
Infiltration Cellular

Minimal
Lymphocyte, Mild

Lymph Node

Iliac
Mandibular
Mesenteric

Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed

Note: [LYMPH MAL MIXD] TGLs = 4-15.1

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi
Lumen
Respirat Epith

Degeneration
Hemorrhage
Inflammation

Mild
Mild
Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5223	TRT#: 7 DOSE: 1200 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland [Adenoma TGLS = 3-1]	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Minimal
Stomach Note: [LYMPH MAL MIXD] TGLs = 5-6	Glandular	Lymphoma Malignant Mixed	
Thymus		Hyperplasia	Lymphoid, Mild
Thyroid Gland		Inflammation	Chronic Active, Mild
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5224

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Ovary	Parathyroid Gland
Skin	Stomach - Forestomach	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Moderate
		Hemangiosarcoma	Metastatic (Spleen)
	Myeloid Cell	Hyperplasia	Mild
Note: FIBROSIS ALSO IN SKULL			
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Marked
	Mesenteric	Hyperplasia	Lymphoid, Marked
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Mild
	Respirat Epith	Inflammation	Acute, Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Marked

[Hemangiosarcoma TGLS = 1-12]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5224

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 1200 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Thymus		Hyperplasia	Lymphoid, Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5285

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow		Fibrosis	Mild
	Myeloid Cell	Hyperplasia	Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Esophagus		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Casts Protein	Mild
	Renal Tubule	Dilatation	Mild
		Lymphoma Malignant Mixed	
	Renal Tubule	Necrosis	Mild
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Moderate
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Iliac	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-1,4-15,5-15.1			
Mammary Gland		Ectasia	Moderate
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5285	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland Note: HYPERPLASIA TGLs = 6-1	Olfactory Epi Pars Distalis	Inflammation Hyperplasia	Acute, Minimal Mild
Spleen [Hematopoietic Cell Proliferation TGLS = 1-12]		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
Stomach Thymus	Glandular, Mucosa	Dilatation Lymphoma Malignant Mixed	Minimal
Urinary Bladder Uterus Note: HYPERPLASIA TGLs = 2-5	Endometrium	Lymphoma Malignant Mixed Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5286

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Hypertrophy Pigmentation	Mild Mild Moderate
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Note: FIBROSIS ALSO IN SKULL			
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Liver		Hematopoietic Cell Proliferation Inflammation	Minimal Chronic, Moderate
Note: INFLAMMATION TGLs = 1-11			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular Mesenteric	Congestion Hyperplasia Hyperplasia	Mild Lymphoid, Mild Lymphoid, Mild
Nose	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5286

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus Note: HYPERPLASIA TGLs = 2-5	Endometrium	Hyperplasia	Cystic, Moderate
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5287

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
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	Ovary
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex Cortex	Hyperplasia Hypertrophy Pigmentation	Mild Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation Hyperplasia Infiltration Cellular	Mild Moderate Lymphocyte, Mild
Note: [HYPERPLASIA] TGLs = 1-15			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-15.1			
Note: HEPATIC			
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Minimal Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5287

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Stomach	Forestomach	Erosion	Moderate
	Forestomach	Hyperplasia	Squamous, Moderate
	Forestomach	Inflammation	Chronic Active, Moderate
Note: INFLAMMATION	TGLs = 3-15.2+6		
Note: HYPERPLASIA	TGLs = 3-15.2+6		
Note: EROSION	TGLs = 3-15.2+6		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5288

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary	Parathyroid Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Moderate
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Minimal Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Lymphoma Malignant Mixed Mineralization	Mild
Kidney		Lymphoma Malignant Mixed	
Liver		Hematopoietic Cell Proliferation Hepatocellular Adenoma Lymphoma Malignant Mixed	Minimal
Note: HEPATOCLR ADEN TGLs = 3-15			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular Mesenteric	Hyperplasia Lymphoma Malignant Mixed	Lymphoid, Mild
Note: REGIONAL			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Minimal Mild
Pancreas		Lymphoma Malignant Mixed	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Mild
Note: LYMPH MAL MIXD TGLs = 1-12			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5288

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Hyperplasia	Minimal
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5289

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Parathyroid Gland	Skin	Trachea

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Brain	Meninges	Inflammation	Acute, Mild
		Mineralization	Mild
Gallbladder		Lymphoma Malignant Mixed	
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule	Dilatation	Minimal
		Lymphoma Malignant Mixed	
	Renal Tubule	Necrosis	Minimal
Liver		Cyst	
		Lymphoma Malignant Mixed	
Note: CYST	TGLs = 3-15		
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
		Lymphoma Malignant Mixed	
Note: REGIONAL LYMPH NODE-SLIDE 15.1			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5289

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Lymphoma Malignant Mixed	
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 1-12		
Stomach	Forestomach	Lymphoma Malignant Mixed	
	Glandular	Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Hyperplasia	Mild
Tooth	Pulp	Inflammation	Acute, Minimal
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5290

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Mammary Gland	Pituitary Gland	Stomach - Forestomach
Thymus	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Moderate Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Minimal Minimal
Lung		Infiltration Cellular Infiltration Cellular Mineralization	Lymphocyte, Mild Lymphocyte, Mild Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST TGLs = 3-5			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5290

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Pigmentation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Hyperplasia	Mild
Uterus	Endometrium	Infiltration Cellular	Lymphocyte, Mild
		Infiltration Cellular	Lymphocyte, Mild
		Hyperplasia	Cystic, Mild

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5291

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Pancreas	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation Fibrosis	Mild Mild Marked
Bone Marrow			
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
	Interstitialium	Inflammation	Chronic, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Mucosa	Degeneration Inflammation	Minimal Acute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Thymus		Hyperplasia	Lymphoid, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5291

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5292

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Liver

Ovary

Skin

Stomach - Glandular

Thymus

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Mild

Myeloid Cell

Hyperplasia

Mild

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Kidney

Renal Tubule

Casts Protein

Mild

Renal Tubule

Dilatation

Mild

Renal Tubule

Infiltration Cellular

Lymphocyte, Mild

Lung

Regeneration

Minimal

Lymph Node

Infiltration Cellular

Lymphocyte, Mild

Note: MESENTERIC L.N. NORMAL

Mandibular

Hyperplasia

Lymphoid, Mild

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi

Degeneration

Mild

Respirat Epith

Degeneration

Mild

Lumen

Hemorrhage

Mild

Pancreas

Infiltration Cellular

Lymphocyte, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Hematopoietic Cell Proliferation

Mild

Hyperplasia

Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5292	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Pigmentation	Mild
	Forestomach	Hyperplasia	Squamous, Mild
		Inflammation	Acute, Minimal
Note: HYPERPLASIA TGLs = 3-15.1+6			
Thyroid Gland	Follicle	Dilatation	Mild
		Inflammation	Acute, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus		Angiectasis	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
Note: [ANGIECTASIS] TGLs = 2-15			
Note: HYPERPLASIA TGLs = 1-15+5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5293

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Ovary

Parathyroid Gland

Skin

Stomach - Forestomach

Trachea

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Marked

Cortex

Pigmentation

Mild

Bone Marrow

Myeloid Cell

Fibrosis

Mild

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Infiltration Cellular

Lymphocyte, Mild

Mineralization

Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Intestine Small

Ileum

Amyloid Deposition

Moderate

Kidney

Infiltration Cellular

Lymphocyte, Mild

Liver

Hematopoietic Cell Proliferation

Minimal

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Note: MESENTERIC L.N. NORMAL

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi

Degeneration

Mild

Respirat Epith

Degeneration

Mild

Lumen

Hemorrhage

Mild

Pancreas

Infiltration Cellular

Lymphocyte, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

Spleen

Hematopoietic Cell Proliferation

Mild

Hyperplasia

Lymphoid, Mild

Pigmentation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5293

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Inflammation	Acute, Mild
Thymus		Hyperplasia	Lymphoid, Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Marked
Note: HYPERPLASIA	TGLs = 1-5+15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5294

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Ovary

Pancreas

Skin

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Moderate

Myeloid Cell

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule

Casts Protein

Minimal

Renal Tubule

Dilatation

Minimal

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Regeneration

Mild

Liver

Hematopoietic Cell Proliferation

Mild

Infiltration Cellular

Lymphocyte, Mild

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Note: MESENTERIC L.N. NORMAL

Nose

Olfactory Epi

Degeneration

Mild

Respirat Epith

Degeneration

Mild

Lumen

Hemorrhage

Mild

Pituitary Gland

Pars Distalis

Adenoma

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Hematopoietic Cell Proliferation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5294	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach	Forestomach Glandular	Pigmentation Hyperplasia Infiltration Cellular	Mild Squamous, Focal, Moderate Lymphocyte, Mild
Note: [HYPERPLASIA] TGLs = 2-15			
Thymus		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 1-5			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5295

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Glandular

Blood Vessel
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland

Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Skin

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation
Fibrosis

Mild
Mild
Mild

Bone Marrow

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Minimal

Kidney

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Regeneration

Mild

Liver

Hepatocellular Adenoma

Infiltration Cellular

Lymphocyte, Mild

Note: HEPATOCLR ADEN TGLs = 3-15

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mesenteric

Hyperplasia

Lymphoid, Mild

Note: REGIONAL L.N. BLOCK 15.1 NORMAL

Nose

Lumen

Hemorrhage

Mild

Ovary

Periovarn Tiss

Cyst

Note: CYST TGLs = 1-5

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Adenoma

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Hematopoietic Cell Proliferation

Mild

Hyperplasia

Lymphoid, Mild

Pigmentation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5295	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Hyperplasia	Squamous, Mild
	Forestomach	Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 4-15			
Note: HYPERPLASIA TGLs = 4-15			
Thymus		Hyperplasia	Lymphoid, Moderate
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5297

TRT#: 8

SEX: Female

DAY ON TEST: 646

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Ovary	Pancreas
Skin	Trachea		

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Kidney	Renal Tubule	Infiltration Cellular Necrosis	Lymphocyte, Mild Mild
Liver	Alveolar Epith	Necrosis Hyperplasia	Moderate Mild
Lung		Infiltration Cellular Hyperplasia	Lymphocyte, Mild Mild
Lymph Node	Mandibular	Hyperplasia Hyperplasia	Mild Lymphoid, Mild

Note: MESENTERIC L.N. NORMAL

Note: REGIONAL L.N. HYPERPLASTIC

Mammary Gland

Note: CAUSE OF DEATH

Note: MALIGNANT SQUAMOUS COMPONENT

[Adenoacanthoma TGLS = 1-15+15.1]

Nose	Lumen Nasolacrim Dct	Hemorrhage Inflammation	Mild Acute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5297	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 646 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular Forestomach	Infiltration Cellular Inflammation	Lymphocyte, Mild Chronic Active, Mild
Note: INFLAMMATION TGLs = 3-6+15.3			
Thyroid Gland	Follicle	Dilatation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-5]			

PRIMARY CAUSE OF DEATH

-

Animal Note: TWO PR. ADRENALS--SEE TRIM RECORD

Animal Note: TWO MASS A SPECS. SEE TRIM RECORD

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5299

TRT#: 8

SEX: Female

DAY ON TEST: 690

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
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	Ovary
Pituitary Gland	Thymus	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow		Fibrosis	Minimal
Kidney	Myeloid Cell Renal Tubule Renal Tubule	Hyperplasia Casts Protein Dilatation	Mild Mild Mild
Liver		Infiltration Cellular Basophilic Focus Hepatocellular Adenoma	Lymphocyte, Mild
Note: [HEPATOCLR ADEN] TGLs = 1-15 Note: ADENOMA--CAUSE OF DEATH			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular	Congestion Hyperplasia	Marked Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Subcut Tiss	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 3-15.2 Note: SL. 15.2--NORMAL BROWN FAT ALSO			
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5299

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 690
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Hyperplasia	Lymphoid, Mild
	Glandular	Pigmentation	Mild
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
		Infiltration Cellular	Lymphocyte, Mild
		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 4-15.3]			
Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5300

TRT#: 8

SEX: Female

DAY ON TEST: 686

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum

Blood Vessel
Intestine Large - Rectum
Islets, Pancreatic

Bone
Intestine Small - Duodenum
Thyroid Gland

Esophagus
Intestine Small - Ileum
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex
Capsule, Spindle Cell

Degeneration
Hyperplasia

Fatty, Moderate
Mild

Bone Marrow

Myeloid Cell

Fibrosis

Mild

Brain

Chor Plexus

Hyperplasia

Mild

Gallbladder

Lymphoma Malignant Mixed

Heart

Lymphoma Malignant Mixed

Intestine Large

Cecum

Lymphoma Malignant Mixed

Kidney

Renal Tubule

Lymphoma Malignant Mixed

Dilatation

Mild

Liver

Lymphoma Malignant Mixed

Hepatocellular Carcinoma

Lymphoma Malignant Mixed

Note: HEPATOCLR CARC TGLs = 7-15.4+11

Note: CARCINOMA--CAUSE OF DEATH

Lung

Alveolus

Alveolar/Bronchiolar Carcinoma

Infiltration Cellular

Lymphoma Malignant Mixed

Histiocyte, Moderate

Note: [ALV BRON CARC] TGLs = 2-15

Lymph Node

Iliac

Lymphoma Malignant Mixed

Mandibular

Lymphoma Malignant Mixed

Mesenteric

Lymphoma Malignant Mixed

Renal

Lymphoma Malignant Mixed

Note: MAL. LYMPH. ALSO IN PREFEM. & REGIONAL L.N.

Note: LYMPH MAL MIXD TGLs = 3-3.1,4-15.1,5-15.2

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5300	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Moribund	DAY ON TEST: 686 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Ectasia	Mild
Mesentery		Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Degeneration	Mild
Ovary		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 6-5			
Pancreas	Acinus	Atrophy	Mild
		Lymphoma Malignant Mixed	
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Lymphoma Malignant Mixed	
Skin		Alopecia	Moderate
Note: ALOPECIA TGLs = 8-15.6			
Spleen		Lymphoma Malignant Mixed	
Note: LYMPHOMA--CAUSE OF DEATH [Lymphoma Malignant Mixed TGLS = 1-12]			
Stomach	Glandular Forestomach, Glandular	Erosion Lymphoma Malignant Mixed	Mild
Note: EROSION TGLs = 9-15.3+6 Note: LYMPH MAL MIXD TGLs = 9-15.3+6			
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5303

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Ovary

Skin

Stomach - Glandular

Thymus

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Moderate

Myeloid Cell

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Mild

Kidney

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Regeneration

Minimal

Liver

Hematopoietic Cell Proliferation

Minimal

Note: HEPATOCLR ADEN TGLs = 1-15

Lung

Hemorrhage

Mild

Alveolar Epith

Hyperplasia

Mild

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Note: MESENTERIC L.N. NORMAL

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi

Degeneration

Mild

Pancreas

Infiltration Cellular

Lymphocyte, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5303

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Stomach	Forestomach	Squamous Cell Papilloma	
Note: SQ CL PAPILLOM TGLs = 2-15.2			
Thyroid Gland	Follicle Follicle	Dilatation Hyperplasia	Mild Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5305

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Ovary	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC L.N. NORMAL			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Marked

Note: HYPERPLASIA TGLs = 1-15+5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5305

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5306

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: REGIONAL L.N. NORMAL			
Mammary Gland		Ectasia	Mild
Nose	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	

Note: POLYP STROMAL TGLs = 1-15

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5306

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5307

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Mammary Gland		Ectasia	Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST TGLs = 1-5			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5307

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5308

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hemangioma Hyperplasia	Mild Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular Mineralization	Lymphocyte, Mild Minimal
Lymph Node	Mesenteric Mandibular	Hyperplasia Inflammation	Lymphoid, Mild Acute, Mild
Mammary Gland		Ectasia	Mild
Nose	Lumen	Hemorrhage	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Thyroid Gland	Follicle	Hyperplasia	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5308

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5309

TRT#: 8

SEX: Female

DAY ON TEST: 477

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Esophagus	Gallbladder	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	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Uterus

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Note: SEARCHING WET TISSUE FOR 2ND ADRENAL			
Brain		Mineralization	Mild
Heart		Fibrosis	Focal, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Carcinoma	
		Necrosis	Moderate
Note: [HEPATOCLR CARC] TGLs = 1-15.1			
Note: PROBABLE CAUSE OF DEATH			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: REGIONAL LYMPH NODE IN SLIDE 15.2			
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 2-15			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5310

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Trachea

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas

Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Skin

Heart
Intestine Small - Duodenum
Mammary Gland
Thymus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Moderate
Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Kidney

Infiltration Cellular

Lymphocyte, Mild

Liver

Hepatocellular Adenoma
Infiltration Cellular

Lymphocyte, Minimal

[Hepatocellular Adenoma TGLS = 1-15]

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular
Mesenteric

Hyperplasia
Hyperplasia

Lymphoid, Mild
Lymphoid, Mild

Note: REGIONAL L.N. ALSO HYPERPLASTIC

Nose

Olfactory Epi
Lumen

Degeneration
Hemorrhage

Mild
Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Marked

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Spleen

Hematopoietic Cell Proliferation
Pigmentation

Mild
Mild

Stomach

Forestomach

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5310

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder	Follicle	Hyperplasia	Mild
Uterus	Endometrium	Infiltration Cellular	Lymphocyte, Mild
		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5312 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 452
DOSE: 120 PPM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	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
Ovary	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Hyperplasia	Lymphoid, Moderate
	Renal Tubule	Regeneration	Minimal
Liver		Hyperplasia	Lymphoid, Mild
Lung		Hyperplasia	Lymphoid, Moderate
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Nasolacrim Dct	Hemorrhage	Minimal
Pancreas		Hyperplasia	Lymphoid, Mild
Pituitary Gland			
Note: WET TISSUE SEARCH			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Moderate
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Minimal
Urinary Bladder		Hyperplasia	Lymphoid, Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5313

TRT#: 8

SEX: Female

DAY ON TEST: 599

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Ovary	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Uterus		

MISSING

Parathyroid Gland	Stomach - Forestomach
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Medulla	Hyperplasia Pheochromocytoma Malignant	Mild
Note: [PHEOCHROM MAL] TGLs = 5-1.1			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Intestine Small	Jejunum	Lymphoma Malignant Mixed	
Note: [LYMPH MAL MIXD] TGLs = 3-15			
Kidney	Renal Tubule	Infiltration Cellular Regeneration	Lymphocyte, Mild Mild
Liver	Median Lobe	Angiectasis Necrosis	Mild Mild
Note: [ANGIECTASIS] TGLs = 6-15.2			
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular Mesenteric	Hyperplasia Lymphoma Malignant Mixed	Lymphoid, Mild
Note: [LYMPH MAL MIXD] TGLs = 4-15.3			
Mammary Gland		Inflammation	Acute, Mild
Nose	Respirat Epith	Degeneration	Minimal
Pancreas		Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin	Back	Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5313

TRT#: 8

SEX: Female

DAY ON TEST: 599

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [ULCER] TGLs = 1-15.1

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: [HEMA CELL PROL] TGLs = 2-12

Stomach

Note: WET TISSUE SEARCH FOR FORESTOMACH

Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: MALIGNANT LYMPHOMA PROBABLE CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5314

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Gallbladder
Intestine Large - Rectum
Mammary Gland
Thymus

Blood Vessel
Heart
Intestine Small - Duodenum
Ovary
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Skin

Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Blood
Bone Marrow

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation
Leukemia
Fibrosis
Lymphoma Malignant Mixed
Mineralization
Hyperplasia
Casts Protein
Dilatation
Infiltration Cellular
Hepatocellular Adenoma
Lymphoma Malignant Mixed

Mild
Mild

Mild

Mild
Mild
Minimal
Minimal
Lymphocyte, Mild

Brain
Islets, Pancreatic
Kidney

Renal Tubule
Renal Tubule

Liver

Note: HEPATOCLR ADEN TGLs = 3-15.1
Note: LYMPH MAL MIXD TGLs = 2-15+15.1+11

Lung

Hemorrhage
Infiltration Cellular
Lymphoma Malignant Mixed
Mineralization
Inflammation
Inflammation

Mild
Lymphocyte, Mild

Mild
Acute, Mild
Acute, Mild

Lymph Node

Mandibular
Mesenteric

Note: ACUTE INFLAM. ALSO IN REGIONAL L.N.

Nose

Olfactory Epi

Degeneration

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5314	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas	Respirat Epith Lumen	Degeneration Hemorrhage Infiltration Cellular	Mild Mild Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed Pigmentation	Moderate Mild
	[Hematopoietic Cell Proliferation TGLS = 1-12] [Lymphoma Malignant Mixed TGLS = 1-12]		
Stomach	Glandular, Mucosa Glandular	Dilatation Metaplasia	Minimal Squamous, Mild
Thyroid Gland	Follicle	Hyperplasia	Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus		Angiectasis Hyperplasia	Mild Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5317

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Ovary	Skin	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow		Fibrosis	Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Mammary Gland		Ectasia	Marked
Nose	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Cyst	Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5317

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus Note: HYPERPLASIA TGLs = 1-5+15	Endometrium	Hyperplasia	Cystic, Moderate
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5318

TRT#: 8

SEX: Female

DAY ON TEST: 534

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Pancreas	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Uterus	

MISSING

Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain	Meninges	Mineralization	Mild
		Sarcoma	Metastatic (Uncertain Primary Site)
Note: CAUSE OF DEATH			
Eye		Atrophy	Marked
[Atrophy TGLS = 3-15.1]			
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Ovary	Periovarn Tiss	Cyst	
		Granulosa Cell Tumor Benign	
[Granulosa Cell Tumor Benign TGLS = 1-5]			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skeletal Muscle	Head	Sarcoma	Deep Invasion
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 2-15			
Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5318

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 534
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder	Pigmentation Infiltration Cellular	Mild Lymphocyte, Mild
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5319

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Parathyroid Gland

Skin

Stomach - Forestomach

Thymus

Thyroid Gland

Trachea

MISSING

Ovary

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Mild

Myeloid Cell

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Infiltration Cellular

Lymphocyte, Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Harderian Gland

Adenoma

Note: ADENOMA TGLs = 3-15

Kidney

Renal Tubule

Casts Protein

Minimal

Renal Tubule

Dilatation

Minimal

Renal Tubule

Infiltration Cellular

Lymphocyte, Mild

Regeneration

Minimal

Liver

Infiltration Cellular

Lymphocyte, Mild

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Moderate

Mesenteric

Hyperplasia

Lymphoid, Moderate

Mammary Gland

Ectasia

Moderate

Nose

Olfactory Epi

Degeneration

Mild

Respirat Epith

Degeneration

Mild

Lumen

Hemorrhage

Mild

Pancreas

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5319

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland Note: ADENOMA TGLs = 2-1	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
Stomach	Glandular	Inflammation	Acute, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Inflammation	Acute, Mild
[Hyperplasia TGLS = 1-5]			
[Inflammation TGLS = 1-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5320

TRT#: 8

SEX: Female

DAY ON TEST: 430

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Minimal
Liver		Basophilic Focus	
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi	Degeneration	Mild
	Turbinates	Inflammation	Acute, Mild
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 1-7			
Spleen		Pigmentation	Mild
Stomach	Glandular	Erosion	Mild
Note: EROSION TGLs = 2-6			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5321

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum

Blood Vessel
Intestine Large - Colon
Islets, Pancreatic

Bone
Intestine Large - Rectum
Skin

Esophagus
Intestine Small - Duodenum
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex
Capsule, Spindle Cell
Cortex

Degeneration
Hyperplasia
Pigmentation

Fatty, Mild
Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis

Moderate

Brain

Hyperplasia
Infiltration Cellular
Mineralization

Mild
Lymphocyte, Mild
Mild

Gallbladder

Infiltration Cellular

Lymphocyte, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Intestine Small

Ileum

Amyloid Deposition

Moderate

Kidney

Renal Tubule
Renal Tubule

Casts Protein
Dilatation

Mild
Mild

Liver

Infiltration Cellular
Infiltration Cellular

Lymphocyte, Mild
Lymphocyte, Mild

Lung

Hemorrhage
Lymphoma Malignant Mixed

Mild

Lymph Node

Mandibular
Mesenteric

Hyperplasia
Lymphoma Malignant Mixed

Lymphoid, Mild

Mammary Gland

Ectasia

Mild

Nose

Olfactory Epi
Respirat Epith
Lumen

Degeneration
Degeneration
Hemorrhage

Mild
Mild
Mild

Ovary

Periovarn Tiss

Cyst

Note: CYST TGLs = 2-5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5321	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Stomach	Glandular, Mucosa	Dilatation	Minimal
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA	TGLs = 1-5		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5322

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Thymus

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Trachea

Bone
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland

Esophagus
Intestine Small - Duodenum
Mammary Gland
Skin

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Mild
Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Mild

Gallbladder

Infiltration Cellular
Inflammation

Lymphocyte, Mild
Acute, Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Regeneration
Hematopoietic Cell Proliferation

Minimal
Mild

Liver

Hemorrhage
Infiltration Cellular

Minimal
Lymphocyte, Mild

Lung

Mineralization

Minimal

Lymph Node

Mesenteric
Mandibular
Mesenteric
Olfactory Epi

Congestion
Hyperplasia
Hyperplasia
Degeneration

Mild
Lymphoid, Mild
Lymphoid, Mild
Mild

Nose

Ovary

Note: CYST IS NORMAL FOLLICLE

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 1-1

Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5322

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stomach	Forestomach	Hyperplasia	Squamous, Mild
	Forestomach	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild
Note: HYPERPLASIA	TGLs = 2-15		
Thyroid Gland		Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 4-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5323

TRT#: 8

SEX: Female

DAY ON TEST: 683

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Brain	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Pancreas	Stomach - Forestomach
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex Capsule, Spindle Cell	Degeneration Hyperplasia	Fatty, Mild Mild
Note: DEGEN TGLs = 4-1.1 Note: HYPERPLASIA TGLs = 4-1.1			
Bone	Femur	Fracture	
Note: HEALED			
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Lymphoma Malignant Mixed	
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hepatocellular Adenoma Lymphoma Malignant Mixed	
Note: HEPATOCLR ADEN TGLs = 3-15.1 Note: LYMPHOMA--CAUSE OF DEATH			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular Mediastinal Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPHOMA IN REGIONAL L.N.			
Mesentery		Lymphoma Malignant Mixed	
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5325

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Mammary Gland	Ovary	Pancreas
Skin	Stomach - Forestomach	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow		Fibrosis	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Mild Mild
Lung		Infiltration Cellular Alveolar/Bronchiolar Carcinoma Hemorrhage	Lymphocyte, Mild Mild
	Alveolus	Infiltration Cellular Infiltration Cellular	Histiocyte, Marked Lymphocyte, Moderate
Note: ALV BRON CARC	TGLs = 2-4+15.5		
Lymph Node	Mandibular Mediastinal Mesenteric	Hyperplasia Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild Lymphoid, Mild
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular, Mucosa	Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5325

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Congestion	Mild
Uterus	Endometrium	Infiltration Cellular	Lymphocyte, Mild
[Hyperplasia TGLS = 1-5]		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5326

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney	Renal Tubule Renal Tubule	Casts Protein Dilatation	Minimal Minimal
Liver		Infiltration Cellular Hematopoietic Cell Proliferation	Lymphocyte, Mild Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Infiltration Cellular Hyperplasia	Lymphocyte, Mild Lymphoid, Mild
Note: MESENTERIC L.N. NORMAL			
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Minimal Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5326

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Uterus

Note: HYPERPLASIA TGLs = 1-5

Endometrium

Pigmentation
Infiltration Cellular
Hyperplasia

Minimal
Lymphocyte, Mild
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Toluene
 CAS Number: 108-88-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:18:12
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 5327

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Mammary Gland	Ovary	Pituitary Gland	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow		Fibrosis	Mild
Brain		Mineralization	Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Heart		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Minimal
Stomach	Glandular, Mucosa	Dilatation	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5327

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus		Hyperplasia	Lymphoid, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA	TGLs = 1-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5328

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	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	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Medulla Cortex	Hyperplasia Pheochromocytoma Nos Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Brain		Mineralization	Mild
Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Mild
Liver		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mesenteric	Hyperplasia Inflammation	Lymphoid, Mild Acute, Mild
Nose	Lumen	Hemorrhage	Mild
Ovary	Periovarn Tiss	Cyst	
Note: CYST	TGLs = 1-5		
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5328

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5329

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Mammary Gland	Nose
Ovary	Parathyroid Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Fibrosis Hyperplasia	Mild Mild
Note: FIBROSIS ALSO IN SKULL			
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric Mandibular	Congestion Hyperplasia	Mild Lymphoid, Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Mild Lymphoid, Mild Mild
Note: HYPERPLASIA TGLs = 1-12			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5330

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Skin

Stomach - Glandular

Thyroid Gland

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex

Degeneration

Fatty, Mild

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Mild

Myeloid Cell

Hyperplasia

Mild

Brain

Mineralization

Mild

Harderian Gland

Adenoma

Note: ADENOMA TGLs = 2-15

Heart

Coron Artery

Inflammation

Chronic, Marked

Kidney

Infiltration Cellular

Lymphocyte, Mild

Renal Tubule

Regeneration

Minimal

Liver

Basophilic Focus

Lung

Infiltration Cellular

Lymphocyte, Mild

Mineralization

Minimal

Lymph Node

Mandibular

Hyperplasia

Lymphoid, Mild

Note: MESENTERIC L.N. NORMAL

Nose

Olfactory Epi

Degeneration

Mild

Respirat Epith

Degeneration

Mild

Lumen

Hemorrhage

Mild

Ovary

Periovarn Tiss

Cyst

Note: CYST TGLs = 1-5

Pancreas

Infiltration Cellular

Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5330	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland Salivary Glands Spleen	Pars Distalis	Hyperplasia Infiltration Cellular Hematopoietic Cell Proliferation Pigmentation	Moderate Lymphocyte, Mild Mild Mild
Stomach	Forestomach Forestomach Forestomach	Hyperplasia Infiltration Cellular Ulcer	Squamous, Focal, Moderate Lymphocyte, Mild Mild
Note: HYPERPLASIA TGLs = 3-15.1 Note: [HYPERPLASIA] TGLs = 3-6 Note: ULCER TGLs = 3-6			
Thymus Urinary Bladder Uterus	Endometrium	Hyperplasia Infiltration Cellular Hyperplasia	Lymphoid, Moderate Lymphocyte, Mild Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5331

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Blood Vessel
Heart
Intestine Small - Duodenum
Mammary Gland
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Ovary

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Skin

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Mild
Mild

Note: FIBROSIS ALSO IN SKULL

Gallbladder

Infiltration Cellular

Lymphocyte, Minimal

Kidney

Renal Tubule
Renal Tubule

Casts Protein
Dilatation

Mild
Mild

Liver

Renal Tubule

Lymphoma Malignant Mixed
Necrosis
Hematopoietic Cell Proliferation

Mild
Minimal

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Mandibular
Mesenteric
Mandibular

Lymphoma Malignant Mixed
Hyperplasia
Hyperplasia
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed

Lymphoid, Mild
Lymphoid, Mild

Note: REGIONAL L.N.

Note: SECTION OF MANDIBULAR IN BL-9

Nose

Olfactory Epi
Respirat Epith

Degeneration
Degeneration

Minimal
Mild

Pancreas

Lymphoma Malignant Mixed

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5331	TRT#: 8 DOSE: 120 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
		Pigmentation	Mild
Note: LYMPH MAL MIXD	TGLs = 2-12		
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
	Glandular	Mineralization	Minimal
Thymus		Lymphoma Malignant Mixed	
Thyroid Gland	Follicle	Dilatation	Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus		Hemangiosarcoma	
	Endometrium	Hyperplasia	Cystic, Mild
Note: HEMANGIOSARC	TGLs = 1-15		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5332

TRT#: 8

SEX: Female

DAY ON TEST: 722

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Stomach - Forestomach
Urinary Bladder

Blood Vessel
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Glandular

Bone
Intestine Large - Rectum
Islets, Pancreatic
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Ovary
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell
Cortex

Hyperplasia
Pigmentation

Mild
Mild

Bone Marrow

Myeloid Cell

Fibrosis
Hyperplasia

Mild
Mild

Brain

Mineralization

Mild

Gallbladder

Lymphoma Malignant Mixed

Heart

Lymphoma Malignant Mixed

Mineralization

Minimal

Kidney

Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 3-12

Liver

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 4-15.1+11

Lung

Alveolar Epith

Hyperplasia
Infiltration Cellular

Mild
Lymphocyte, Mild

Lymph Node

Iliac
Mandibular
Mediastinal
Mesenteric
Renal

Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed
Lymphoma Malignant Mixed

Note: LYMPHOMA ALSO IN HEPATIC L.N.

Note: LYMPH MAL MIXD TGLs = 5-1,6-15.2,7-15.3,8-15.4

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5332

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Moribund

DAY ON TEST: 722
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Ectasia	Moderate
Nose	Lumen	Hemorrhage	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Pituitary Gland	Pars Distalis	Cyst	
Salivary Glands		Lymphoma Malignant Mixed	
Skin		Alopecia	Moderate
Note: ALOPECIA	TGLs = 9-15.5		
Spleen		Lymphoma Malignant Mixed	
Note: LYMPHOMA--CAUSE OF DEATH			
Note: LYMPH MAL MIXD	TGLs = 1-12		
Thymus		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Lymphoma Malignant Mixed	
		Polyp Stromal	
Note: HYPERPLASIA	TGLs = 2-5+15		
Note: LYMPH MAL MIXD	TGLs = 2-15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5333

TRT#: 8

SEX: Female

DAY ON TEST: 388

DOSE: 120 PPM

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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	Liver
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Brain		Mineralization	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Note: HEMORRHAGE TGLs = 2-4			
Lymph Node			
Note: MESENTERIC NORMAL			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Mild
Note: ALOPECIA TGLs = 1-15			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5334

TRT#: 8

SEX: Female

DAY ON TEST: 388

DOSE: 120 PPM

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - 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	Mammary Gland	Ovary	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Blood Vessel	Aorta	Mineralization	Minimal
Note: BLOCK 9			
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC NORMAL			
Nose	Olfactory Epi Lumen	Degeneration Hemorrhage	Mild Minimal
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Cyst	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Stomach	Glandular	Erosion	Mild
Note: EROSION TGLs = 1-6			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5335

TRT#: 8

SEX: Female

DAY ON TEST: 388

DOSE: 120 PPM

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Mammary Gland	Nose	Ovary	Parathyroid Gland
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Lymphoid, Mild
Pancreas		Infiltration Cellular	Lymphocyte, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Stomach	Glandular	Erosion	Mild
	Glandular	Infiltration Cellular	Lymphocyte, Mild

Note: EROSION TGLs = 1-15

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5336

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Esophagus

Gallbladder

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Pancreas

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Fibrosis

Mild

Myeloid Cell

Hyperplasia

Mild

Note: FIBROSIS ALSO IN SKULL

Brain

Mineralization

Mild

Heart

Infiltration Cellular

Lymphocyte, Minimal

Inflammation

Chronic, Mild

Kidney

Infiltration Cellular

Lymphocyte, Mild

Liver

Hematopoietic Cell Proliferation

Mild

Infiltration Cellular

Lymphocyte, Mild

Necrosis

Mild

Lung

Hemorrhage

Mild

Mineralization

Minimal

Hyperplasia

Lymphoid, Mild

Lymph Node

Mandibular

Note: MESENTERIC L.N. NORMAL

Nose

Lumen

Hemorrhage

Mild

Ovary

Periovarn Tiss

Cyst

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5336

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Uterus

Note: HYPERPLASIA TGLs = 1-5

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5338

TRT#: 8

SEX: Female

DAY ON TEST: 653

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Blood Vessel

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Mammary Gland

Ovary

Stomach - Forestomach

Stomach - Glandular

Trachea

MISSING

Gallbladder

Parathyroid Gland

Thymus

OBSERVATIONS

Adrenal Gland

Capsule, Spindle Cell

Hyperplasia

Mild

Cortex

Pigmentation

Mild

Bone Marrow

Myeloid Cell

Hyperplasia

Mild

Harderian Gland

Infiltration Cellular

Lymphocyte, Mild

Heart

Coron Artery

Inflammation

Acute, Moderate

Kidney

Pelvis

Abscess

Moderate

Pelvis

Dilatation

Moderate

Infiltration Cellular

Lymphocyte, Mild

Metaplasia

Osseous, Mild

Mineralization

Moderate

Renal Tubule

Necrosis

Mild

Renal Tubule

Regeneration

Mild

[Dilatation TGLS = 3-12]

Liver

Infiltration Cellular

Lymphocyte, Mild

Lung

Infiltration Cellular

Lymphocyte, Mild

Lymph Node

Adenocarcinoma

Metastatic (Uterus)

Mandibular

Hyperplasia

Lymphoid, Mild

Mesenteric

Hyperplasia

Lymphoid, Mild

Note: REGIONAL L.N. ALSO HYPERPLASTIC

Note: METASTASIS ALSO IN SLIDE 6.1

Note: METASTASIS IN SLIDE 6

Nose

Respirat Epith

Degeneration

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5338

TRT#: 8

SEX: Female

DAY ON TEST: 653

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Skin		Alopecia	Moderate
[Alopecia TGLS = 1-15+7]			
Spleen		Adenocarcinoma	Metastatic (Uterus)
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Thyroid Gland	Follicle	Hyperplasia	Mild
Ureter		Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
[Dilatation TGLS = 2-15.1]			
[Infiltration Cellular TGLS = 2-15.1]			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Uterus		Adenocarcinoma	
	Endometrium	Hyperplasia	Cystic, Mild

Note: CAUSE OF DEATH--ADENOCA.

Note: ADENOCARC TGLs = 4-15.2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5339

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Ovary	Pancreas	Salivary Glands
Skin	Thymus	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Mild
	Myeloid Cell	Hyperplasia	Mild
Note: FIBROSIS ALSO IN SKULL			
Brain		Mineralization	Mild
Heart		Infiltration Cellular	Lymphocyte, Minimal
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mandibular	Pigmentation	Mild
Note: MESENTERIC L.N. NORMAL			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi	Degeneration	Mild
	Respirat Epith	Degeneration	Mild
	Lumen	Hemorrhage	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Stomach	Forestomach	Hyperplasia	Squamous, Moderate
	Glandular	Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5339

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA Note: INFLAMMATION	TGLs = 4-6 TGLs = 4-6	Forestomach	Inflammation	Acute, Mild
Thyroid Gland		Follicle Follicle	Dilatation Hyperplasia	Mild Minimal
Note: DILATATION	TGLs = 2-2			
Urinary Bladder			Infiltration Cellular	Lymphocyte, Mild
Uterus		Endometrium	Hyperplasia Leiomyoma	Cystic, Mild
Note: HYPERPLASIA Note: LEIOMYOMA	TGLs = 1-15+5 TGLs = 1-15			
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5340

TRT#: 8

SEX: Female

DAY ON TEST: 458

DOSE: 120 PPM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus
Uterus

Blood Vessel
Gallbladder
Intestine Large - Rectum
Liver
Ovary
Skin
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

MISSING

Islets, Pancreatic

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Brain
Kidney
Lung
Lymph Node
Note: MESENTERIC NORMAL
Spleen

Capsule, Spindle Cell

Hyperplasia
Mineralization
Infiltration Cellular
Infiltration Cellular

Mild
Mild
Lymphocyte, Mild
Lymphocyte, Mild

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5341

TRT#: 8

SEX: Female

DAY ON TEST: 8

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	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
Mammary Gland	Nose	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Mandibular	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell	Hyperplasia	Minimal
Lymph Node			
Note: WET TISSUE SEARCH FOR MANDIBULAR L.N.			
Note: MESENTERIC NORMAL			

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS OF ALL TISSUES

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5342

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Skin	Stomach - Glandular	Thymus
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Capsule, Spindle Cell	Hyperplasia	Mild
	Cortex	Pigmentation	Mild
Bone Marrow		Fibrosis	Mild
	Myeloid Cell	Hyperplasia	Mild
Note: FIBROSIS ALSO IN SKULL			
Esophagus		Infiltration Cellular	Lymphocyte, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Necrosis	Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Infiltration Cellular	Lymphocyte, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
		Hyperplasia	Lymphoid, Mild
Note: REGIONAL L.N. HYPERPLASTIC			
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi	Degeneration	Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5342	TRT#: 8	SEX: Female	DAY ON TEST: 732
	DOSE: 120 PPM	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 4-1			
Note: ADENOMA	TGLs = 4-1			
Salivary Glands			Infiltration Cellular	Lymphocyte, Mild
Spleen			Hematopoietic Cell Proliferation	Mild
			Pigmentation	Mild
Stomach		Forestomach	Hyperplasia	Squamous, Mild
Note: HYPERPLASIA	TGLs = 5-15.2			
Thyroid Gland		Follicle	Hyperplasia	Mild
			Infiltration Cellular	Lymphocyte, Mild
Note: HYPERPLASIA	TGLs = 3-2			
Urinary Bladder			Infiltration Cellular	Lymphocyte, Mild
Uterus		Endometrium	Hyperplasia	Cystic, Marked
Note: HYPERPLASIA	TGLs = 1-15,2-5			
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5343

TRT#: 8

SEX: Female

DAY ON TEST: 687

DOSE: 120 PPM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	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	Ovary
Pancreas	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Lung		Congestion Infiltration Cellular Mineralization	Moderate Lymphocyte, Mild Mild
[Congestion TGLS = 1-4]			
Lymph Node	Mandibular Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Mild
Mammary Gland		Ectasia	Mild
Nose	Olfactory Epi Respirat Epith Lumen	Degeneration Degeneration Hemorrhage	Mild Minimal Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: CAUSE OF DEATH			
Note: ADENOMA TGLs = 2-1			
Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Mild
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5343

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Dead

DAY ON TEST: 687
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFILTRAT CELL TGLs = 3-6

Urinary Bladder

Uterus

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: SEVERE AUTOLYSIS IN DIGESTIVE TRACT

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene

CAS Number: 108-88-3

Date Report Requested: 10/21/2014

Time Report Requested: 15:18:12

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 5344

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 120 PPM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Ovary	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Spindle Cell Cortex	Hyperplasia Pigmentation	Mild Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Mineralization	Moderate
Gallbladder		Infiltration Cellular	Lymphocyte, Mild
Kidney		Infiltration Cellular	Lymphocyte, Mild
Liver		Hematopoietic Cell Proliferation	Mild
Lung		Hemorrhage	Mild
		Infiltration Cellular	Lymphocyte, Mild
Lymph Node			
Note: MESENTERIC L.N. NORMAL			
Note: MESENTERIC L.N. NORMAL			
Nose	Olfactory Epi Respirat Epith	Degeneration Degeneration	Mild Mild
Pancreas		Infiltration Cellular	Lymphocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands		Atrophy	Mild
Note: ATROPHY BL-3.1			
Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
Stomach	Forestomach	Hyperplasia	Squamous, Focal, Moderate
Note: HYPERPLASIA TGLs = 1-15+6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05701-03
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Toluene
CAS Number: 108-88-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:18:12
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5344

TRT#: 8
DOSE: 120 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HYPERPLASIA] TGLs = 1-6

Urinary Bladder

Uterus

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****