

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

<b>C Number:</b>	C55276
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Male

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_001

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Hyperplasia, Focal
	Hardarian Gland	Tissue Examined
Liver		Hepatocellular Carcinoma
Lung		Carcinoma, Nos, Metastatic
		Hyperplasia, Alveolar Epithelium
Lymph node	Pancreatic Lymph Node	Hematopoiesis
	Pancreatic Lymph Node	Hemorrhage
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Preputial gland		Carcinoma, Nos
		Tissue Examined
Spleen		Depletion, Lymphoid
		Hematopoiesis
Stomach	Fundus	Necrosis, Focal
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_002

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Heart  
Liver  
Lung

Thalamus  
Harderian Gland  
Myocardium Nos

Preputial gland  
Prostate  
Unspecified  
Zymbal gland

Prostatic Urethra  
Multiple Organs Nos

Mineralization  
Tissue Examined  
Degeneration, Nos  
Nuclear-Size Alteration  
Alveolar/Bronchiolar Adenoma  
Alveolar/Bronchiolar Carcinoma  
Hyperplasia, Alveolar Epithelium  
Tissue Not Examined  
Retention Of Content  
Alveolar/Bronchiolar Carcinoma, Metastatic  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_003

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland

Hardarian Gland

Hyperplasia, Focal

Preputial gland

Hardarian Gland

Tissue Examined

Unspecified

Multiple Organs Nos

Tissue Not Examined

Zymbal gland

Lymphoma, Histiocytic-Malignant Type

Tissue Examined

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_004

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow  
Harderian gland

Hardarian Gland  
Hardarian Gland  
Hardarian Gland  
Hardarian Gland  
Hardarian Gland  
Hardarian Gland

Hyperplasia, Hematopoietic  
Adenoma, Nos  
Atrophy, Focal  
Fibrosis, Multifocal  
Inflammation, Acute/Chronic  
Mineralization  
Tissue Examined

Intestine Large  
Intestine Small  
Lung

Colon  
Submucosa, Jejunum

Parasitism  
Inflammation, Chronic Focal  
Alveolar/Bronchiolar Adenoma  
Alveolar/Bronchiolar Carcinoma  
Histiocytosis

Preputial gland  
Stomach  
Unspecified  
Zymbal gland

Fundus  
Multiple Organs Nos

Tissue Not Examined  
Ulcer, Nos  
Lymphoma, Undifferentiated-Malignant Type  
Dilatation, Nos  
Squamous Cell Carcinoma  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow  
Harderian gland

Harderian Gland  
Harderian Gland

Kidney  
Liver  
Lung

Preputial gland

Thyroid

Zymbal gland

Fibrosis, Myelo  
Inflammation, Chronic Focal  
Tissue Examined  
Nephropathy  
Hepatocellular Carcinoma  
Alveolar/Bronchiolar Carcinoma  
Hyperplasia, Alveolar Epithelium  
Carcinoma, Nos  
Tissue Examined  
Follicular-Cell Adenoma  
Hyperplasia, Follicular Cell  
Squamous Cell Carcinoma  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_006

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland	Hardarian Gland	Carcinoma, Nos
	Hardarian Gland	Tissue Examined
Intestine Large	Colon	Parasitism
Liver		Hepatocellular Carcinoma
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Tissue Not Examined
Skeletal muscle	Leg	Hemangiosarcoma
Spleen		Hemangiosarcoma
Unspecified	Multiple Organs Nos	Hemangiosarcoma, Metastatic
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_007

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Harderian Gland	Tissue Examined
Lung		Alveolar/Bronchiolar Carcinoma
Lymph node	Mesenteric Lymph Node	Angiectasis
	Mesenteric Lymph Node	Depletion, Lymphoid
	Mesenteric Lymph Node	Hematopoiesis
	Mandibular Lymph Node	Hemorrhage
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Spleen		Depletion, Lymphoid
		Hematopoiesis
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Mediastinum Nos	Alveolar/Bronchiolar Carcinoma, Metastatic
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_008

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland  
Heart  
Intestine Large  
Lung  
Preputial gland  
Testis  
Unspecified  
Zymbal gland

Hardarian Gland  
Right Ventricle Nos  
Colon  
  
Multiple Organs Nos

Tissue Examined  
Degeneration, Nos  
Parasitism  
Inflammation, Acute Focal  
Tissue Not Examined  
Mineralization  
Lymphoma, Nos-Malignant  
Tissue Not Examined

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_009

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Harderian gland

Hardarian Gland

Hyperplasia, Focal

Hardarian Gland

Inflammation, Chronic Focal

Hardarian Gland

Tissue Examined

Kidney

Nephropathy

Lung

Hyperplasia, Alveolar Epithelium

Preputial gland

Inflammation, Acute/Chronic

Squamous Cell Carcinoma

Tissue Examined

Skin

Back

Inflammation, Chronic Focal

Zymbal gland

Hyperplasia, Epithelial

Squamous Cell Carcinoma

Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Harderian gland  
Kidney  
Liver  
Preputial gland

Hardarian Gland

Tissue Examined  
Pyelonephritis, Acute  
Hematopoiesis  
Squamous Cell Carcinoma

Prostate  
Spleen

Tissue Examined  
Inflammation, Acute/Chronic  
Hematopoiesis

Unspecified  
Zymbal gland

Thigh

Hemangiosarcoma  
Squamous Cell Carcinoma  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_011

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Lipoidosis
Bone marrow		Hyperplasia, Granulocytic
Brain	Medulla Oblongata Nos	Hemorrhage
Harderian gland	Harderian Gland	Inflammation, Chronic Focal
	Harderian Gland	Tissue Examined
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Hematopoiesis
Lung		Alveolar/Bronchiolar Adenoma
		Inflammation, Granulomatous Focal
Mammary gland	Mammary Acinus	Hyperplasia, Focal
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Spleen		Depletion, Lymphoid
	Red Pulp	Hematopoiesis
Unspecified	Abdomen	Inflammation, Chronic Focal
	Abdomen	Lymphangiectasis
	Back	Sarcoma, Nos
Zymbal gland		Hyperplasia, Epithelial
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_012

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Kidney		Hyperplasia, Lymphoid
Liver		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Adenoma
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Prostate		Inflammation, Chronic Focal
Spleen		Hematopoiesis
		Hyperplasia, Lymphoid
Unspecified	Flank	Sarcoma, Nos
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_013

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Periadrenal Tissue	Inflammation, Chronic Focal
Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Harderian Gland	Adenoma, Nos
	Harderian Gland	Tissue Examined
Liver		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
		Hemorrhage
		Histiocytosis
		Squamous Cell Carcinoma, Metastatic
Lymph node	Renal Lymph Node	Hyperplasia, Lymphoid
	Pancreatic Lymph Node	Inflammation, Acute/Chronic
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Seminal vesicle		Dilatation, Nos
Spleen		Depletion, Lymphoid
		Hematopoiesis
Stomach	Fundus	Adenocarcinoma, Nos
	Cardiac Stomach	Squamous Cell Carcinoma
	Cardiac Stomach	Squamous Cell Papilloma
Testis		Squamous Cell Carcinoma, Metastatic
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_014

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland  
Lymph node  
Preputial gland

Harderian Gland  
Mesenteric Lymph Node

Tissue Examined  
Plasmacytosis  
Inflammation, Acute Diffuse

Unspecified  
Zymbal gland

Abdomen

Tissue Examined  
Inflammation, Acute  
Tissue Not Examined

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_015

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain  
Harderian gland  
Kidney  
Lung  
Preputial gland  
Stomach  
  
Zymbal gland

Thalamus  
Hardarian Gland  
  
Mucosa  
Mucosa

Mineralization  
Tissue Examined  
Nephropathy  
Perivascular Cuffing  
Tissue Not Examined  
Acanthosis  
Hyperkeratosis  
Tissue Not Examined

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_016

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Carcinoma, Nos
	Hardarian Gland	Tissue Examined
Lung		Squamous Cell Carcinoma, Metastatic
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Amyloidosis
Urethra		Inflammation, Acute Diffuse
		Retention Of Content
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_017

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Brain		Hemorrhage
Harderian gland	Harderian Gland	Adenoma, Nos
	Harderian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Necrosis, Coagulative
Lung		Hemorrhage
Pancreas	Acinus	Atrophy, Diffuse
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Spleen		Hematopoiesis
Testis	Tubule	Degeneration, Nos
	Tubule	Mineralization
		Spermatocele
Unspecified	Abdomen	Inflammation, Acute Focal
	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_018

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow  
Harderian gland  
Kidney  
Liver  
Lymph node  
Preputial gland

Hardarian Gland

Skin  
Spleen

Back

Zymbal gland

Hyperplasia, Hematopoietic  
Tissue Examined  
Nephropathy  
Mineralization  
Hyperplasia, Lymphoid  
Squamous Cell Carcinoma  
Tissue Examined  
Sebaceous Adenocarcinoma  
Depletion, Lymphoid  
Hematopoiesis  
Hyperplasia, Epithelial  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Harderian Gland	Tissue Examined
Heart	Left Atrium Nos	Squamous Cell Carcinoma, Metastatic
Liver		Hematopoiesis
Lung		Squamous Cell Carcinoma, Metastatic
Preputial gland		Tissue Not Examined
Skin	Thorax	Squamous Cell Carcinoma
Spleen		Depletion, Lymphoid
		Hematopoiesis
Unspecified	Leg	Fibrosarcoma
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland

Harderian Gland  
Harderian Gland

Kidney

Cortical Adenoma  
Adenoma, Nos  
Tissue Examined  
Hyperplasia, Tubular Cell  
Nephropathy

Liver  
Lymph node  
Preputial gland

Mesenteric Lymph Node

Hematopoiesis  
Angiectasis  
Tissue Examined  
Inflammation, Chronic Focal

Salivary gland  
Stomach

Cardiac Stomach  
Multiple Organs Nos

Squamous Cell Papilloma  
Lymphoma, Histiocytic-Malignant Type  
Hyperplasia, Epithelial  
Squamous Cell Carcinoma  
Tissue Examined

Unspecified  
Zymbal gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_021

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Hardarian Gland	Tissue Examined
Preputial gland		Tissue Not Examined
Unspecified	Thorax	Fibrosarcoma
Zymbal gland		Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_022

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Tissue Examined
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
		Necrosis, Focal
Lung		Hemorrhage
		Pneumonia, Aspiration
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Spleen		Necrosis, Focal
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Hyperplasia, Epithelial
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_023

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Epididymis		Inflammation, Chronic Focal
Harderian gland	Harderian Gland	Tissue Examined
Heart	Endocardium Nos	Inflammation, Acute Focal
	Left Ventricle Nos	Inflammation, Acute Focal
Kidney	Pelvis	Hemorrhage
		Nephrosis, Hydro
Liver		Hepatocellular Adenoma
Lung		Alveolar/Bronchiolar Adenoma
Lymph node		Hyperplasia, Lymphoid
Preputial gland		Carcinoma, Nos
		Tissue Examined
Seminal vesicle		Dilatation, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Diffuse
Urinary bladder		Dilatation, Nos
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_024

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Harderian gland

Harderian Gland

Tissue Examined

Heart

Auricular Appendage Nos

Hypertrophy, Nos

Liver

Hemangiosarcoma

Lung

Alveolar/Bronchiolar Carcinoma

Histiocytosis

Preputial gland

Hyperplasia, Alveolar Epithelium

Squamous Cell Carcinoma

Skin

Neck

Tissue Examined

Squamous Cell Carcinoma, Uncertain Prim/Meta

Zymbal gland

Hyperplasia, Epithelial

Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_025

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Tissue Examined
Lung		Alveolar/Bronchiolar Adenoma
Pancreas	Acinus	Atrophy, Focal
Penis		Inflammation, Acute/Chronic
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Unspecified	Multiple Organs Nos	Inflammation, Chronic Focal
	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_026

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hemangiosarcoma, Metastatic
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Tissue Examined
Intestine Large	Cecum, Colon	Parasitism
Liver		Hemangiosarcoma
		Inflammation, Acute/Chronic
Lung		Alveolar/Bronchiolar Adenoma
		Alveolar/Bronchiolar Carcinoma
		Hemorrhage
		Inflammation, Acute Diffuse
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Prostate	Prostatic Urethra	Hemorrhage
	Prostatic Urethra	Inflammation, Acute Focal
Spleen		Hemangiosarcoma, Metastatic
		Hematopoiesis
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_027

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Nos
Brain	Thalamus	Mineralization
Ear	Canal	Inflammation, Acute Diffuse
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
		Nephrosis, Hydro
Liver		Hematopoiesis
		Hepatocellular Carcinoma
		Inflammation, Acute/Chronic
Preputial gland		Tissue Not Examined
Skin	Neck	Squamous Cell Carcinoma
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_028

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Hardarian Gland	Hyperplasia, Focal
	Hardarian Gland	Inflammation, Acute Focal
	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Kidney		Infarct, Acute
	Perirenal Tissue	Inflammation, Acute Focal
Liver		Cell-Size Alteration
		Necrosis, Focal
Lung		Squamous Cell Carcinoma, Metastatic
Lymph node	Thymic Lymph Node	Hemorrhage
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Prostate		Inflammation, Acute Focal
Spleen		Hematopoiesis
Zymbal gland		Hyperplasia, Epithelial
		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_029

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Dosing Accident

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Heart

Harderian Gland  
Epicardium

Tissue Examined  
Inflammation, Acute/Chronic  
Mineralization

Lung

Mediastinal Pleura  
Mediastinal Pleura

Foreign Body, Nos  
Inflammation, Acute/Chronic

Preputial gland  
Thymus  
Zymbal gland

Cortex

Tissue Examined  
Depletion, Lymphoid  
Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_030

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hemosiderosis
Gall bladder		Hyperplasia, Epithelial
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Heart		Inflammation, Acute/Chronic
Intestine Large	Cecum, Colon	Parasitism
Kidney		Nephropathy
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Acute Focal
	Pleura Nos	Inflammation, Chronic Focal
Pancreas		Amyloidosis
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Salivary gland		Amyloidosis
Spleen		Depletion, Lymphoid
		Hematopoiesis
Unspecified	Mediastinum Nos	Inflammation, Acute Focal
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_031

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Carcinosarcoma, Uncertain Primary Or Metastatic
Lung		Squamous Cell Carcinoma, Metastatic
Lymph node		Hyperplasia, Lymphoid
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_032

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Hardarian Gland	Tissue Not Examined
Lung		Squamous Cell Carcinoma, Metastatic
Preputial gland		Tissue Not Examined
Unspecified	Mediastinum Nos	Alveolar/Bronchiolar Carcinoma, Metastatic
Urinary bladder	Cavity	Retention Of Content
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_033

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Nephrosis, Hydro
Lung		Alveolar/Bronchiolar Adenoma
		Alveolar/Bronchiolar Carcinoma
Preputial gland		Tissue Examined
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_034

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Hyperplasia, Focal
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Cell-Size Alteration
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_035

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Harderian gland  
Heart  
Lung

Capsule  
Hardarian Gland  
Left Ventricle Nos

Hyperplasia, Focal  
Tissue Examined  
Rhabdomyosarcoma  
Hemorrhage  
Rhabdomyosarcoma, Metastatic  
Tissue Not Examined  
Tissue Not Examined

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_036

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule Periadrenal Tissue Periadrenal Tissue	Fibrosis, Multifocal Hemorrhage Inflammation, Acute/Chronic Hyperplasia, Hematopoietic
Bone marrow		Tissue Examined
Harderian gland	Hardarian Gland	Parasitism
Intestine Large	Cecum, Colon	Alveolar/Bronchiolar Carcinoma
Lung		Angiectasis
Lymph node	Mesenteric Lymph Node Mesenteric Lymph Node	Hematopoiesis
Preputial gland		Squamous Cell Carcinoma Tissue Examined
Spleen		Depletion, Lymphoid Hematopoiesis
Unspecified	Multiple Organs Nos	Squamous Cell Carcinoma, Metastatic
Zymbal gland		Dilatation, Ducts Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_037

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Focal Cellular Change
Brain		Hemorrhage
	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Tissue Examined
Kidney		Alveolar/Bronchiolar Carcinoma, Metastatic
Liver		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
Preputial gland		Tissue Not Examined
Spleen		Ectopia
Unspecified	Mediastinum Nos	Hemorrhage
	Mediastinum Nos	Inflammation, Chronic Focal
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_038

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Focal Cellular Change
Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Harderian Gland	Tissue Examined
Heart	Left Ventricle Nos	Degeneration, Nos
Intestine Small	Jejunum	Adenocarcinoma, Nos
Lung		Alveolar/Bronchiolar Adenoma
		Hemorrhage
		Squamous Cell Carcinoma, Metastatic
Lymph node		Squamous Cell Carcinoma, Metastatic
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Spleen		Depletion, Lymphoid
		Hematopoiesis
Stomach	Glandular Stomach	Dilatation, Nos
Unspecified	Abdomen	Inflammation, Chronic Focal
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_039

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland

Harderian Gland

Adenoma, Nos

Intestine Large

Harderian Gland

Tissue Examined

Kidney

Colon

Parasitism

Liver

Nephropathy

Preputial gland

Hepatocellular Adenoma

Inflammation, Chronic Focal

Hyperkeratosis

Hyperplasia, Epithelial

Inflammation, Acute Focal

Squamous Cell Carcinoma

Tissue Examined

Spleen

Lymphoma, Nos-Malignant

Thyroid

Hyperplasia, Follicular Cell

Urinary bladder

Inflammation, Chronic Focal

Zymbal gland

Squamous Cell Carcinoma

Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_040

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Dosing Accident

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Esophagus		Necrosis, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Preputial gland		Tissue Not Examined
Thymus	Lymphocytes	Necrosis, Diffuse
Unspecified	Mediastinum Nos	Foreign Material, Nos
	Mediastinum Nos	Inflammation, Acute Focal
Zymbal gland		Tissue Examined

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_041

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Hardarian Gland	Tissue Examined
Lung		Hyperplasia, Alveolar Epithelium
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_042

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Carcinoma, Nos
	Hardarian Gland	Inflammation, Acute/Chronic
	Hardarian Gland	Tissue Examined
Kidney		Infarct, Focal
		Nephropathy
Liver		Hepatocellular Adenoma
Lung		Alveolar/Bronchiolar Carcinoma
		Carcinosarcoma, Metastatic
Preputial gland		Carcinosarcoma
		Tissue Examined
Seminal vesicle		Dilatation, Nos
Spleen		Hematopoiesis
Testis	Spermatogenic Epithelium	Atrophy, Diffuse
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_043

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Focal Cellular Change
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Inflammation, Acute/Chronic
Eye	Nasolacrimal Duct	Hyperplasia, Focal
	Lacrimal Gland	Inflammation, Chronic Focal
Harderian gland	Hardarian Gland	Tissue Examined
Heart	Tricuspid Valve Nos	Pigmentation, Nos
Kidney		Nephropathy
Lung		Alveolar/Bronchiolar Carcinoma
		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Plasmacytosis
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Skin	Back	Inflammation, Acute/Chronic
	Back	Ulcer, Nos
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Squamous Cell Papilloma
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_044

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Brain  
Harderian gland

Cortex Nos  
Thalamus  
Harderian Gland  
Harderian Gland  
Harderian Gland

Lung

Lymph node  
Preputial gland

Mandibular Lymph Node

Tooth  
Unspecified  
Zymbal gland

Gum Nos  
Abdomen

Focal Cellular Change  
Mineralization  
Adenoma, Nos  
Hyperplasia, Focal  
Tissue Examined  
Alveolar/Bronchiolar Carcinoma  
Pneumonia, Aspiration  
Hyperplasia, Reticulum Cell  
Squamous Cell Carcinoma  
Tissue Examined  
Squamous Cell Carcinoma  
Fibrosarcoma  
Hyperplasia, Epithelial  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_045

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow  
Harderian gland  
  
Heart  
Preputial gland  
  
Unspecified  
Zymbal gland

Hardarian Gland  
Hardarian Gland  
Myocardium Nos  
  
Multiple Organs Nos

Hyperplasia, Hematopoietic  
Necrosis, Focal  
Tissue Examined  
Mineralization  
Squamous Cell Carcinoma  
Tissue Examined  
Lymphoma, Nos-Malignant  
Hyperplasia, Epithelial  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_046

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow  
Harderian gland  
Lung  
  
Preputial gland  
  
Spleen  
Zymbal gland

Hardarian Gland

Hyperplasia, Hematopoietic  
Tissue Examined  
Alveolar/Bronchiolar Adenoma  
Squamous Cell Carcinoma, Metastatic  
Squamous Cell Carcinoma  
Tissue Examined  
Hematopoiesis  
Squamous Cell Carcinoma  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_047

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow  
Harderian gland

Harderian Gland  
Harderian Gland

Heart  
Lung

Hyperplasia, Hematopoietic  
Hyperplasia, Focal  
Tissue Examined  
Carcinoma, Metastatic  
Alveolar/Bronchiolar Adenoma  
Alveolar/Bronchiolar Carcinoma  
Hyperplasia, Alveolar Epithelium

Lymph node  
Preputial gland

Mandibular Lymph Node

Carcinoma, Metastatic  
Squamous Cell Carcinoma  
Tissue Examined

Spleen

Depletion, Lymphoid

Zymbal gland

Hematopoiesis  
Carcinoma  
Squamous Cell Carcinoma  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_048

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland Hardarian Gland	Inflammation, Chronic Focal Tissue Examined
Heart	Myocardium Nos	Inflammation, Chronic Focal
Kidney		Nephropathy
Liver		Angiectasis
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Plasmacytosis
Preputial gland		Tissue Not Examined
Prostate		Inflammation, Chronic Focal
Spleen		Depletion, Lymphoid Hematopoiesis
Stomach	Cardiac Stomach	Squamous Cell Papilloma
Thyroid		Cyst, Follicular Nos
Zymbal gland		Hyperplasia, Epithelial Squamous Cell Carcinoma Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_049

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Focal Cellular Change
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Epididymis		Inflammation, Chronic Focal
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Inflammation, Multifocal
Liver		Necrosis, Focal
Lung		Alveolar/Bronchiolar Adenoma
Lymph node	Mandibular Lymph Node	Plasmacytosis
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Prostate		Inflammation, Chronic Focal
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_050

**TRT#:** 1  
**DOSE:** 100.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow  
Harderian gland  
  
Kidney  
Preputial gland

Harderian Gland  
Harderian Gland

Spleen  
Stomach  
Testis  
Unspecified  
  
Zymbal gland

Cardiac Stomach  
Spermatogenic Epithelium  
Multiple Organs Nos  
Multiple Organs Nos

Hyperplasia, Diffuse  
Adenoma, Nos  
Tissue Examined  
Infarct, Focal  
Squamous Cell Carcinoma  
Tissue Examined  
Hematopoiesis  
Squamous Cell Papilloma  
Atrophy, Diffuse  
Inflammation, Acute Focal  
Squamous Cell Carcinoma, Metastatic  
Squamous Cell Carcinoma  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_001

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Tissue Examined
Liver		Hepatocellular Carcinoma
Lymph node	Mandibular Lymph Node	Squamous Cell Carcinoma, Metastatic
Preputial gland		Tissue Not Examined
Unspecified	Multiple Organs Nos	Lymphoma, Lymphocytic-Malignant Type
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_002

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Diffuse
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Tissue Examined
Liver		Cell-Size Alteration
Lung		Pneumonia, Aspiration
Lymph node	Pancreatic Lymph Node	Hemorrhage Hemorrhage
Preputial gland		Tissue Not Examined
Skin	Lower Leg	Hyperplasia, Epithelial
	Lower Leg	Ulcer, Nos
Stomach	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Hyperplasia, Epithelial
Thyroid		Cyst, Follicular Nos Hyperplasia, Follicular Cell
Unspecified	Back	Fibrosarcoma
	Leg	Inflammation, Chronic
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_003

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Brain  
Harderian gland  
Lung

Capsule  
Thalamus  
Harderian Gland

Hyperplasia, Focal  
Mineralization  
Tissue Examined  
Alveolar/Bronchiolar Carcinoma  
Histiocytosis  
Pneumonia, Aspiration  
Tissue Not Examined  
Inflammation, Chronic Focal  
Hyperplasia, Epithelial  
Tissue Not Examined

Preputial gland  
Salivary gland  
Stomach  
Zymbal gland

Cardiac Stomach

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_004

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Brain  
Harderian gland  
Kidney

Cortex Nos  
Thalamus  
Harderian Gland

Lung  
Lymph node  
Preputial gland  
Salivary gland  
Spleen  
Zymbal gland

Mandibular Lymph Node

Focal Cellular Change  
Mineralization  
Tissue Examined  
Mineralization  
Nephropathy  
Alveolar/Bronchiolar Adenoma  
Hyperplasia, Lymphoid  
Tissue Examined  
Inflammation, Chronic Focal  
Hyperplasia, Lymphoid  
Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_005

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Adenoma, Nos
	Capsule	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Embryonal Rest
		Nephropathy
Pancreas		Inflammation, Acute/Chronic
Preputial gland		Hyperplasia, Epithelial
		Inflammation, Chronic Focal
		Tissue Examined
Stomach	Cardiac Stomach	Squamous Cell Papilloma
Zymbal gland		Hyperplasia, Epithelial
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_006

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Liver  
Lung  
Preputial gland

Thalamus  
Hardarian Gland

Unspecified  
Zymbal gland

Multiple Organs Nos

Mineralization  
Tissue Examined  
Cell-Size Alteration  
Alveolar/Bronchiolar Carcinoma  
Inflammation, Acute  
Tissue Examined  
Lymphoma, Lymphocytic-Malignant Type  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_007

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Brain  
Harderian gland  
  
Kidney  
Lung  
Preputial gland

Capsule  
Thalamus  
Hardarian Gland  
Hardarian Gland  
Hardarian Gland

Hyperplasia, Focal  
Mineralization  
Adenoma, Nos  
Atrophy, Focal  
Tissue Examined  
Nephropathy  
Hyperplasia, Alveolar Epithelium  
Hyperplasia, Epithelial  
Inflammation, Chronic Focal  
Metaplasia, Squamous  
Tissue Examined  
Inflammation, Granulomatous Focal  
Lymphoma, Nos-Malignant  
Hyperplasia, Epithelial  
Tissue Examined

Unspecified

Abdomen  
Multiple Organs Nos

Zymbal gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_008

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Heart  
Intestine Small  
Kidney  
Preputial gland

Harderian Gland  
Myocardium Nos  
Jejunum

Tissue Not Examined  
Inflammation, Chronic Focal  
Adenocarcinoma, Nos  
Nephropathy  
Hyperplasia, Epithelial  
Inflammation, Acute/Chronic  
Tissue Examined  
Inflammation, Chronic Focal  
Dilatation, Nos  
Fibroma  
Fibroma  
Inflammation, Acute/Chronic  
Inflammation, Granulomatous Focal  
Metaplasia, Osseous  
Tissue Not Examined

Salivary gland  
Seminal vesicle  
Unspecified

Abdomen  
Back  
Abdomen  
Abdominal Cavity  
Abdomen

Zymbal gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_009

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Hyperplasia, Focal
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Cell-Size Alteration
Lung		Alveolar/Bronchiolar Carcinoma
Lymph node	Mesenteric Lymph Node	Angiectasis
	Mesenteric Lymph Node	Hematopoiesis
Preputial gland		Carcinoma, Nos
		Hyperplasia, Epithelial
		Tissue Examined
Spleen		Hematopoiesis
		Hyperplasia, Lymphoid
Unspecified	Multiple Organs Nos	Inflammation, Chronic Focal
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_010

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Dosing Accident

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Esophagus  
Harderian gland

Hardarian Gland  
Hardarian Gland

Heart  
Lung  
Preputial gland  
Unspecified

Pericardium Nos  
Pleura Nos

Zymbal gland

Mediastinum Nos  
Mediastinum Nos

Wound, Penetrating  
Hyperplasia, Focal  
Tissue Examined  
Inflammation, Acute Necrotizing  
Inflammation, Acute Necrotizing  
Tissue Not Examined  
Foreign Body, Vegetable  
Inflammation, Acute Necrotizing  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_011

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Brain	Thalamus	Mineralization
Eye	Lacrimal Gland	Inflammation, Chronic Focal
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Atrophy, Diffuse
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hematopoiesis
Pancreas	Islets	Hyperplasia, Focal
Preputial gland		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
		Metaplasia, Squamous
		Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Seminal vesicle		Dilatation, Nos
Thyroid		Hyperplasia, Focal
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_012

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule Medulla	Focal Cellular Change Hyperplasia, Focal Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Hardarian Gland	Tissue Examined
Liver		Hepatocellular Adenoma
Lymph node	Mesenteric Lymph Node	Leukemoid Reaction
Preputial gland		Tissue Not Examined
Spleen		Hematopoiesis
Unspecified	Thorax	Fibrosarcoma
Zymbal gland		Hyperplasia, Focal Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_013

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland

Capsule  
Harderian Gland  
Harderian Gland

Hyperplasia, Focal  
Inflammation, Chronic Focal  
Tissue Examined

Intestine Large

Colon

Parasitism

Liver

Hemangiosarcoma

Lung

Pneumonia, Interstitial Chronic

Lymph node

Mesenteric Lymph Node

Depletion, Lymphoid

Preputial gland

Tissue Not Examined

Salivary gland

Inflammation, Chronic Focal

Spleen

Red Pulp

Hematopoiesis

Stomach

Cardiac Stomach

Cyst, Nos

Thymus

Cortex

Depletion, Lymphoid

Unspecified

Abdomen

Edema, Nos

Zymbal gland

Abdomen

Inflammation, Granulomatous Focal

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_014

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland	Hardarian Gland	Inflammation, Chronic Focal Tissue Examined
Penis	Hardarian Gland Prepuce Nos	Inflammation, Acute/Chronic Inflammation, Acute/Chronic
	Prepuce Nos	Ulcer, Nos
Preputial gland		Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Seminal vesicle		Dilatation, Nos
Urethra	Mucosa	Erosion
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_015

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Harderian gland	Harderian Gland	Tissue Examined
Kidney	Pelvis	Inflammation, Acute Focal
Liver	Hepatocytes	Cell-Size Alteration
Preputial gland		Tissue Not Examined
Prostate	Prostatic Urethra	Inflammation, Acute Necrotizing
	Prostatic Urethra	Retention Of Content
Spleen		Hematopoiesis
Thymus	Medulla	Inflammation, Acute Diffuse
Urinary bladder		Inflammation, Acute/Chronic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_016

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland  
Preputial gland  
Skin

Hardarian Gland

Tissue Examined  
Tissue Not Examined  
Inflammation, Acute/Chronic  
Ulcer, Chronic  
Hematopoiesis  
Inflammation, Acute/Chronic  
Tissue Not Examined

Spleen  
Unspecified  
Zymbal gland

Back

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_017

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Heart  
Kidney  
Lung  
Preputial gland  
Salivary gland  
Spleen

Thalamus  
Harderian Gland  
Myocardium Nos

Mineralization  
Tissue Examined  
Degeneration, Nos  
Nephropathy  
Alveolar/Bronchiolar Adenoma  
Tissue Not Examined  
Inflammation, Chronic Focal  
Depletion, Lymphoid  
Hematopoiesis  
Sarcoma, Nos  
Tissue Examined

Unspecified  
Zymbal gland

Back

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_018

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Liver

Thalamus  
Hardarian Gland

Lung  
Preputial gland

Spleen  
Stomach

Cardiac Stomach  
Cardiac Stomach

Zymbal gland

Mineralization  
Tissue Examined  
Cell-Size Alteration  
Inflammation, Acute/Chronic  
Alveolar/Bronchiolar Adenoma  
Carcinosarcoma  
Tissue Examined  
Amyloidosis  
Hyperkeratosis  
Hyperplasia, Epithelial  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_019

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Harderian gland	Hardarian Gland Hardarian Gland	Inflammation, Chronic Focal Tissue Examined
Heart	Epicardium	Inflammation, Chronic Focal
Kidney		Nephropathy
Liver		Cell-Size Alteration
Preputial gland		Hyperplasia, Epithelial Inflammation, Chronic Focal Tissue Examined
Spleen	Capsule	Fibrosis, Focal
Unspecified	Abdomen Abdomen	Inflammation, Granulomatous Focal Lymphangiectasis
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_020

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Carcinoma, Nos
	Hardarian Gland	Tissue Examined
Heart		Hepatocellular Carcinoma, Metastatic
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
Lung		Hepatocellular Carcinoma, Metastatic
Lymph node	Mandibular Lymph Node	Plasmacytosis
Preputial gland		Tissue Not Examined
Stomach	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Hyperplasia, Epithelial
Unspecified	Back	Infection, Fungal
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_021

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Epididymis  
Harderian gland

Capsule  
Epididymal Lumen  
Hardarian Gland  
Hardarian Gland  
Hardarian Gland  
  
Spermatogenic Epithelium

Hyperplasia, Focal  
Dilatation, Nos  
Hyperplasia, Focal  
Inflammation, Chronic Focal  
Tissue Examined  
Tissue Not Examined  
Atrophy, Focal  
Degeneration, Nos  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_022

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Epididymis	Epididymal Lumen	Dilatation, Nos
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
		Necrosis, Coagulative
Preputial gland		Tissue Not Examined
Salivary gland		Inflammation, Chronic Focal
Spleen		Depletion, Lymphoid
		Hematopoiesis
Testis	Spermatogenic Epithelium	Degeneration, Nos
	Spermatogenic Epithelium	Syncytial Alteration
Unspecified	Leg	Fibrosarcoma
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_023

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Bone	Femur	Fibrous Osteodystrophy
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Jejunum	Hyperplasia, Focal
Liver		Hepatocellular Carcinoma
Preputial gland		Tissue Not Examined
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_024

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Kidney  
Lung  
Preputial gland  
Urinary bladder  
Zymbal gland

Hardarian Gland

Tissue Examined  
Pyelonephritis, Acute  
Alveolar/Bronchiolar Adenoma  
Tissue Not Examined  
Inflammation, Acute Diffuse  
Tissue Not Examined

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_025

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Dosing Accident

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland

Capsule  
Hardarian Gland  
Hardarian Gland

Intestine Large  
Liver  
Lung

Colon  
Centrilobular  
Alveoli  
Alveoli

Hyperplasia, Focal  
Mixed Tumor, Malignant  
Tissue Examined  
Parasitism  
Necrosis, Focal  
Aspiration, Foreign Body  
Inflammation, Interstitial  
Perivasculitis  
Tissue Examined  
Tissue Examined

Preputial gland  
Zymbal gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_026

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Tissue Examined
Pituitary gland		Hyperplasia, Focal
Preputial gland		Tissue Not Examined
Stomach	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Hyperplasia, Epithelial
Unspecified	Multiple Organs Nos	Lymphoma, Mixed-Malignant Type
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_027

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Eye	Conjunctiva	Inflammation, Chronic Focal
Harderian gland	Harderian Gland	Inflammation, Chronic Focal
	Harderian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Lung		Alveolar/Bronchiolar Carcinoma
Pancreas	Acinus	Atrophy, Diffuse
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Spleen		Hematopoiesis
		Sarcoma, Nos, Uncertain Primary Or Meta
Stomach	Cardiac Stomach	Squamous Cell Carcinoma
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_028

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Brain  
Harderian gland  
Liver  
Lung  
Preputial gland  
Unspecified  
Zymbal gland

Thalamus  
Hardarian Gland  
  
Multiple Organs Nos

Mineralization  
Tissue Examined  
Hepatocellular Carcinoma  
Hyperplasia, Alveolar Epithelium  
Tissue Not Examined  
Hepatocellular Carcinoma, Metastatic  
Dilatation, Ducts  
Tissue Examined

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_029

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Harderian gland	Hardarian Gland Hardarian Gland	Inflammation, Chronic Focal Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Lung		Inflammation, Chronic
Preputial gland		Hyperplasia, Epithelial Squamous Cell Carcinoma Tissue Examined
Stomach		Hyperplasia, Epithelial
Testis	Cardiac Stomach	Ulcer, Acute
Unspecified	Spermatogenic Epithelium	Mineralization
Zymbal gland	Multiple Organs Nos	Lymphoma, Nos-Malignant Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_030

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Focal Cellular Change
	Capsule	Hyperplasia, Focal
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Atrophy, Focal
	Harderian Gland	Hyperplasia, Focal
	Harderian Gland	Inflammation, Multifocal
	Harderian Gland	Retention Of Content
	Harderian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
Preputial gland		Hyperkeratosis
		Hyperplasia, Epithelial
		Inflammation, Chronic Focal
		Tissue Examined
Stomach	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Hyperplasia, Epithelial
Testis	Spermatogenic Epithelium	Hypoplasia, Nos
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_031

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Dosing Accident

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Esophagus		Inflammation, Chronic Focal
Harderian gland	Hardarian Gland	Tissue Examined
Heart		Inflammation, Chronic Focal
Lymph node		Inflammation, Acute/Chronic
Preputial gland		Tissue Not Examined
Unspecified	Abdomen	Inflammation, Acute/Chronic
	Mediastinum Nos	Necrosis, Focal
		Necrosis, Focal
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_032

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland Hardarian Gland	Inflammation, Chronic Focal Tissue Examined
Kidney		Nephropathy
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Cyst, Nos
Preputial gland		Carcinoma, Nos Hyperplasia, Epithelial Inflammation, Acute/Chronic Tissue Examined
Thymus		Hyperplasia, Lymphoid
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_033

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Focal Cellular Change

Capsule

Hyperplasia, Focal

Harderian gland

Hardarian Gland

Tissue Examined

Kidney

Nephropathy

Preputial gland

Hyperplasia, Epithelial

Salivary gland

Inflammation, Chronic Focal

Urinary bladder

Tissue Examined

Zymbal gland

Inflammation, Chronic Focal

Inflammation, Chronic Focal

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_034

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Intestine Large	Colon	Parasitism
Lung		Inflammation, Interstitial
Preputial gland		Tissue Not Examined
Spleen	Follicles	Necrosis, Focal
Stomach	Mucosa	Necrosis, Focal
Thymus	Lymphocytes	Necrosis, Diffuse
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_035

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Brain  
Harderian gland  
Kidney  
Lung  
Preputial gland

Capsule  
Thalamus  
Hardarian Gland

Hyperplasia, Focal  
Mineralization  
Tissue Examined  
Nephropathy  
Hyperplasia, Alveolar Epithelium  
Hyperplasia, Epithelial  
Inflammation, Chronic Focal  
Tissue Examined  
Mineralization  
Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_036

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Liver		Cytoplasmic Matrix Alteration Hepatocellular Adenoma
Lung		Alveolar/Bronchiolar Adenoma
Pancreas	Islets	Hyperplasia, Focal
Preputial gland		Hyperplasia, Epithelial Inflammation, Chronic Focal Tissue Examined
Prostate		Inflammation, Chronic Focal
Salivary gland		Inflammation, Chronic Focal
Seminal vesicle		Dilatation, Nos
Zymbal gland		Metaplasia, Squamous Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_037

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule Periadrenal Tissue	Hyperplasia, Focal Inflammation, Chronic Focal Necrosis, Focal
Bone marrow		Tissue Not Examined
Harderian gland	Hardarian Gland	
Lung		Alveolar/Bronchiolar Carcinoma
Pancreas	Islets Peripancreatic Tissue	Hyperplasia, Focal Inflammation, Chronic Focal
Preputial gland		Abscess, Nos Tissue Examined
Skeletal muscle	Abdominal Muscle Leg Leg	Fibrosis, Focal Fibrosis, Multifocal Inflammation, Acute/Chronic
Stomach	Cardiac Stomach	Hyperplasia, Epithelial
Unspecified	Multiple Organs Nos Abdomen	Alveolar/Bronchiolar Carcinoma, Metastatic Inflammation, Acute/Chronic
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_038

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Blood vessel	Aorta Nos	Inflammation, Acute/Chronic
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland Hardarian Gland	Adenoma, Nos Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma Hepatocellular Carcinoma
Lymph node	Mesenteric Lymph Node Mesenteric Lymph Node	Angiectasis Hematopoiesis
Preputial gland		Hyperplasia, Epithelial Squamous Cell Carcinoma
Testis		Tissue Examined Seminoma/Dysgerminoma
Zymbal gland		Hyperplasia, Epithelial Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_039

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Pancreas	Islets	Hyperplasia, Focal
Preputial gland		Hyperplasia, Focal Inflammation, Chronic Focal
Unspecified	Multiple Organs Nos	Tissue Examined
Zymbal gland		Lymphoma, Nos-Malignant Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_040

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland  
Kidney  
Preputial gland  
Spleen  
Stomach  
  
Unspecified  
Zymbal gland

Capsule  
Hardarian Gland  
  
Cardiac Stomach  
Cardiac Stomach  
Leg

Hyperplasia, Focal  
Tissue Examined  
Infarct, Focal  
Tissue Not Examined  
Hematopoiesis  
Hyperkeratosis  
Hyperplasia, Epithelial  
Fibrosarcoma  
Dilatation, Ducts  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_041

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Focal Cellular Change
	Capsule	Hyperplasia, Focal
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Lymph node	Mesenteric Lymph Node	Angiectasis
	Mesenteric Lymph Node	Hematopoiesis
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Pancreas	Islets	Hyperplasia, Focal
Preputial gland		Hyperkeratosis
		Inflammation, Chronic Focal
		Tissue Examined
Seminal vesicle		Dilatation, Nos
Stomach	Cardiac Stomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Hyperplasia, Epithelial
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_042

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hemorrhage
Harderian gland	Hardarian Gland	Tissue Examined
Liver		Hepatocellular Adenoma
Lung		Alveolar/Bronchiolar Carcinoma
		Histiocytosis
Pancreas	Islets	Hyperplasia, Focal
Preputial gland		Tissue Not Examined
Spleen		Hemorrhage
Stomach	Cardiac Stomach	Hyperplasia, Epithelial
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:23  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_043

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 025.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal Pheochromocytoma
Bone marrow		Hyperplasia, Hematopoietic
Ear	Canal	Hyperplasia, Epithelial
Epididymis		Mineralization
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Glomerulonephritis, Chronic
Liver		Cell-Size Alteration Hepatocellular Carcinoma
Preputial gland		Hyperplasia, Epithelial Inflammation, Acute/Chronic Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Stomach	Cardiac Stomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, Focal
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_044

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Brain  
Harderian gland  
Lung  
Pancreas  
Preputial gland  
  
Spleen  
Testis  
Zymbal gland

Capsule  
Thalamus  
Hardarian Gland

Hyperplasia, Focal  
Mineralization  
Tissue Examined  
Alveolar/Bronchiolar Carcinoma  
Carcinosarcoma  
Hyperplasia, Epithelial  
Tissue Examined  
Lymphoma, Nos-Malignant  
Inflammation, Acute/Chronic  
Dilatation, Ducts  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_045

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Brain	Thalamus	Mineralization
Epididymis		Hyperplasia, Epithelial
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Tissue Examined
Preputial gland		Tissue Not Examined
Unspecified	Multiple Organs Nos	Leukemia, Nos
Zymbal gland		Tissue Examined

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_046

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Eye  
Harderian gland

Conjunctiva  
Harderian Gland  
Harderian Gland  
Harderian Gland

Inflammation, Acute Focal  
Adenoma, Nos  
Hyperplasia, Focal  
Tissue Examined  
Nephropathy  
Hepatocellular Adenoma  
Alveolar/Bronchiolar Adenoma  
Alveolar/Bronchiolar Carcinoma  
Inflammation, Chronic Focal

Kidney  
Liver  
Lung

Tissue Examined  
Hyperplasia, Lymphoid  
Adenomatous Polyp, Nos  
Hyperplasia, Epithelial  
Hyperplasia, Lymphoid  
Tissue Examined

Preputial gland  
Spleen  
Stomach  
Thymus

Fundus

Zymbal gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_047

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Tissue Examined
Liver		Hepatocellular Adenoma
Lung		Alveolar/Bronchiolar Carcinoma
Preputial gland		Tissue Examined
Testis	Spermatogenic Epithelium	Atrophy, Focal
		Hemangiosarcoma
Thyroid		Hyperplasia, Focal
Unspecified	Multiple Organs Nos	Alveolar/Bronchiolar Carcinoma, Metastatic
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_048

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Adenoma, Nos
	Capsule	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Tissue Examined
Kidney		Nephropathy
Preputial gland		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
		Tissue Examined
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_049

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland

Capsule  
Hardarian Gland  
Hardarian Gland  
Hardarian Gland

Hyperplasia, Focal  
Adenoma, Nos  
Carcinoma, Nos  
Tissue Examined  
Hepatocellular Adenoma  
Alveolar/Bronchiolar Carcinoma  
Carcinoma, Nos, Metastatic

Liver  
Lung

Lymph node

Pancreatic Lymph Node  
Mandibular Lymph Node

Hyperplasia, Lymphoid  
Plasmacytosis  
Cyst, Nos  
Hyperplasia, Epithelial  
Inflammation, Chronic Focal

Preputial gland

Tissue Examined  
Hyperkeratosis  
Hyperplasia, Epithelial  
Ulcer, Nos  
Hyperplasia, Follicular Cell  
Tissue Examined

Skin

Neck  
Neck  
Neck

Thyroid  
Zymbal gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_050

**TRT#:** 2  
**DOSE:** 025.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow  
Harderian gland

Harderian Gland  
Harderian Gland

Heart  
Preputial gland  
Unspecified  
Zymbal gland

Multiple Organs Nos

Hyperplasia, Hematopoietic  
Adenoma, Nos  
Tissue Examined  
Mineralization  
Tissue Not Examined  
Lymphoma, Nos-Malignant  
Tissue Not Examined

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_001

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Lung		Alveolar/Bronchiolar Carcinoma
		Hyperplasia, Alveolar Epithelium
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Prostate		Inflammation, Chronic Focal
Seminal vesicle		Dilatation, Nos
Spleen		Hematopoiesis
Stomach	Fundus	Inflammation, Acute Focal
Thyroid		Cyst, Nos
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_002

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland

Hardarian Gland  
Hardarian Gland  
Hardarian Gland

Heart  
Kidney  
Liver  
Lung  
Preputial gland

Pheochromocytoma  
Adenoma, Nos  
Hyperplasia, Focal  
Tissue Examined  
Inflammation, Acute/Chronic  
Nephropathy  
Hepatocellular Adenoma  
Alveolar/Bronchiolar Carcinoma  
Hyperplasia, Epithelial  
Inflammation, Acute/Chronic  
Squamous Cell Carcinoma  
Tissue Examined  
Inflammation, Chronic Focal  
Alveolar/Bronchiolar Carcinoma, Metastatic  
Lymphoma, Nos-Malignant  
Tissue Examined

Salivary gland  
Unspecified  
Zymbal gland

Mediastinum Nos  
Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_003

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Tissue Examined
Liver		Hematopoiesis
Lymph node		Hyperplasia, Lymphoid
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Spleen		Hematopoiesis
Unspecified	Back	Fibrosarcoma
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_004

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Cytoplasmic Matrix Alteration Hyperplasia, Focal
Harderian gland	Hardarian Gland Hardarian Gland Hardarian Gland	Adenoma, Nos Hyperplasia, Focal Tissue Examined
Kidney		Nephropathy
Preputial gland		Inflammation, Acute/Chronic Squamous Cell Carcinoma Tissue Examined
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_005

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Lung

Hardarian Gland

Tissue Examined  
Alveolar/Bronchiolar Adenoma  
Alveolar/Bronchiolar Carcinoma

Preputial gland  
Salivary gland  
Unspecified  
Zymbal gland

Multiple Organs Nos

Tissue Not Examined  
Inflammation, Chronic Focal  
Alveolar/Bronchiolar Carcinoma, Metastatic  
Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_006

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Heart  
Liver

Thalamus  
Harderian Gland  
Myocardium Nos

Lung  
Lymph node

Pancreatic Lymph Node  
Axillary Lymph Node  
Pancreatic Lymph Node

Pancreas  
Preputial gland  
Spleen

Stomach  
Unspecified  
Zymbal gland

Mineralization  
Tissue Not Examined  
Degeneration, Nos  
Fibrosarcoma, Metastatic  
Necrosis, Coagulative  
Inflammation, Active Chronic  
Angiectasis  
Fibrosarcoma, Metastatic  
Hematopoiesis  
Necrosis, Coagulative  
Tissue Not Examined  
Depletion, Lymphoid  
Hematopoiesis  
Inflammation, Chronic Focal  
Fibrosarcoma  
Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_007

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland

Thalamus  
Harderian Gland  
Harderian Gland  
Harderian Gland  
Harderian Gland

Kidney  
Liver

Mineralization  
Inflammation, Acute/Chronic  
Inflammation, Chronic Focal  
Metaplasia, Nos  
Tissue Examined  
Nephropathy  
Cell-Size Alteration  
Hepatocellular Carcinoma  
Inflammation, Interstitial  
Hyperplasia, Plasma Cell  
Tissue Not Examined  
Squamous Cell Carcinoma  
Hyperplasia, Epithelial  
Tissue Examined

Lung  
Lymph node  
Preputial gland  
Stomach  
Zymbal gland

Mandibular Lymph Node

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_008

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cell-Size Alteration Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Embolus, Septic
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Epididymis		Inflammation, Chronic Focal
Harderian gland	Hardarian Gland Hardarian Gland	Inflammation, Chronic Focal Tissue Examined
Kidney		Nephropathy
Liver		Hematopoiesis Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Adenoma Hepatocellular Carcinoma, Metastatic
Lymph node	Axillary Lymph Node Axillary Lymph Node	Hyperplasia, Lymphoid Hyperplasia, Reticulum Cell
Preputial gland		Squamous Cell Carcinoma Tissue Examined
Spleen		Depletion, Lymphoid Hematopoiesis
Thyroid		Follicular-Cell Adenoma
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_009

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Inflammation, Granulomatous Focal
Brain	Cerebrum	Malacia
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Infarct, Acute
		Infarct, Focal
Liver		Necrosis, Focal
Lung		Alveolar/Bronchiolar Adenoma
		Pneumonia, Aspiration
Lymph node	Thymic Lymph Node	Hyperplasia, Lymphoid
	Renal Lymph Node	Inflammation, Acute/Chronic
	Thymic Lymph Node	Inflammation, Granulomatous Focal
Pancreas	Peripancreatic Tissue	Necrosis, Focal
Preputial gland		Dilatation, Ducts
		Inflammation, Acute Focal
		Tissue Examined
Spleen		Hematopoiesis
		Hemorrhage
		Necrosis, Focal
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_010

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Brain	Meninges	Inflammation, Acute Focal
	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hemangiosarcoma
		Hepatocellular Adenoma
		Hepatocellular Carcinoma
Lung		Hyperplasia, Alveolar Epithelium
Preputial gland		Tissue Not Examined
Salivary gland		Inflammation, Chronic Focal
Stomach	Fundus	Mineralization
	Cardiac Stomach	Squamous Cell Papilloma
Testis	Spermatogenic Epithelium	Atrophy, Diffuse
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_011

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Harderian Gland	Tissue Examined
Lymph node	Mesenteric Lymph Node	Hematopoiesis
	Mesenteric Lymph Node	Hemorrhage
Preputial gland		Inflammation, Chronic Focal
		Tissue Examined
Seminal vesicle		Dilatation, Nos
Stomach		Fibrosarcoma
	Fundus	Metaplasia, Squamous
Unspecified	Multiple Organs Nos	Fibrosarcoma, Metastatic
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_012

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal Pheochromocytoma
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Hyperplasia, Focal
	Harderian Gland	Inflammation, Chronic Focal
	Harderian Gland	Tissue Examined
Kidney		Nephropathy
		Tubular-Cell Adenoma
Liver		Congestion, Chronic Passive
		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
Preputial gland		Tissue Not Examined
Seminal vesicle		Dilatation, Nos
Spleen		Hematopoiesis
Unspecified	Back	Fibrosarcoma
Zymbal gland		Hyperplasia, Epithelial
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_013

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Brain  
Harderian gland  
  
Intestine Large  
Kidney  
  
Liver  
Preputial gland  
Zymbal gland

Cortex Nos  
Thalamus  
Hardarian Gland  
Hardarian Gland  
Colon

Focal Cellular Change  
Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Parasitism  
Cyst, Nos  
Nephropathy  
Hepatocellular Carcinoma  
Tissue Not Examined  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_014

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Epididymis		Granuloma, Spermatic
Harderian gland	Hardarian Gland	Hyperplasia, Focal
	Hardarian Gland	Tissue Examined
Lung		Alveolar/Bronchiolar Adenoma
Pancreas	Islets	Hyperplasia, Focal
Preputial gland		Carcinoma, Nos
		Tissue Examined
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Hyperplasia, Focal
Testis		Atrophy, Diffuse
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Carcinoma, Nos, Metastatic
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_015

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Gall bladder		Inflammation, Acute/Chronic
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Pyelonephritis, Acute
Liver		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
		Hepatocellular Carcinoma, Metastatic
Lymph node	Mesenteric Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Inflammation, Acute Diffuse
	Mandibular Lymph Node	Inflammation, Acute/Chronic
Preputial gland		Hyperkeratosis
		Hyperplasia, Epithelial
		Squamous Cell Carcinoma
		Tissue Examined
Spleen		Depletion, Lymphoid
		Hematopoiesis
Stomach	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Hyperplasia, Epithelial
Testis	Spermatogenic Epithelium	Atrophy, Diffuse
Unspecified	Multiple Organs Nos	Inflammation, Acute Focal
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_016

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Kidney

Thalamus  
Hardarian Gland

Lung  
Preputial gland

Unspecified  
Zymbal gland

Multiple Organs Nos

Mineralization  
Tissue Examined  
Mineralization  
Nephropathy  
Alveolar/Bronchiolar Adenoma  
Hyperplasia, Epithelial  
Squamous Cell Carcinoma  
Tissue Examined  
Inflammation, Chronic Focal  
Hyperplasia, Epithelial  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_017

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
  
Kidney  
Lung  
Preputial gland  
  
Stomach  
Unspecified  
Zymbal gland

Hardarian Gland  
Hardarian Gland  
  
  
Cardiac Stomach  
Multiple Organs Nos

Hyperplasia, Focal  
Tissue Examined  
Nephropathy  
Hyperplasia, Alveolar Epithelium  
Squamous Cell Carcinoma  
Tissue Examined  
Cyst, Nos  
Lymphoma, Nos-Malignant  
Squamous Cell Carcinoma  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_018

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Bone marrow		Thrombus, Organized
Harderian gland	Harderian Gland	Adenoma, Nos
	Harderian Gland	Hyperplasia, Focal
	Harderian Gland	Inflammation, Chronic Focal
	Harderian Gland	Tissue Examined
Intestine Large	Rectum	Hyperplasia, Diffuse
	Rectum	Necrosis, Focal
Kidney		Nephropathy
Liver		Cell-Size Alteration
		Hepatocellular Carcinoma
		Necrosis, Coagulative
Lung		Alveolar/Bronchiolar Carcinoma
Preputial gland		Hyperplasia, Epithelial
		Squamous Cell Carcinoma
		Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Stomach	Fundus	Erosion
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_019

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Blood vessel  
Brain  
Harderian gland  
  
Preputial gland  
  
Unspecified  
Zymbal gland

Aorta Nos  
Thalamus  
Hardarian Gland  
Hardarian Gland  
  
Multiple Organs Nos

Mineralization  
Mineralization  
Adenoma, Nos  
Tissue Examined  
Squamous Cell Carcinoma  
Tissue Examined  
Lymphoma, Nos-Malignant  
Hyperplasia, Epithelial  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_020

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal Pheochromocytoma
Harderian gland	Hardarian Gland Hardarian Gland	Hyperplasia, Focal Tissue Examined
Kidney		Nephropathy
Lung		Alveolar/Bronchiolar Adenoma
Lymph node	Mandibular Lymph Node Mandibular Lymph Node	Erythrophagocytosis Hyperplasia, Reticulum Cell
Preputial gland		Hyperplasia, Epithelial Inflammation, Acute/Chronic Squamous Cell Carcinoma Tissue Examined
Salivary gland	Parotid Gland Nos	Atrophy, Diffuse
Thymus		Hyperplasia, Reticulum Cell
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Hyperplasia, Epithelial Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_021

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Heart  
Kidney  
  
Liver  
Lung  
Preputial gland  
Spleen  
Stomach  
  
Testis  
Urinary bladder  
Zymbal gland

Hardarian Gland  
  
Tubule  
  
Cardiac Stomach  
Cardiac Stomach  
Cardiac Stomach  
Fundus  
Tubule

Tissue Examined  
Hepatocellular Carcinoma, Metastatic  
Glomerulosclerosis, Nos  
Pigmentation, Nos  
Hepatocellular Carcinoma  
Hepatocellular Carcinoma, Metastatic  
Tissue Not Examined  
Hematopoiesis  
Hyperkeratosis  
Hyperplasia, Epithelial  
Ulcer, Acute  
Ulcer, Nos  
Mineralization  
Inflammation, Chronic Focal  
Dilatation, Ducts  
Hyperplasia, Epithelial  
Necrosis, Focal  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_022

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Liver  
Preputial gland  
Stomach  
  
Testis  
Zymbal gland

Hardarian Gland  
  
Cardiac Stomach  
Cardiac Stomach

Tissue Examined  
Hemangiosarcoma, Uncertain Primary Or Metastatic  
Tissue Not Examined  
Hyperkeratosis  
Hyperplasia, Focal  
Hemangiosarcoma, Uncertain Primary Or Metastatic  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_023

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Accidentally Killed

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Preputial gland  
Unspecified  
Zymbal gland

Hardarian Gland  
  
Mediastinum Nos

Tissue Examined  
Tissue Not Examined  
Hemorrhage  
Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_024

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Nos
Bone marrow		Hematopoiesis
Epididymis		Inflammation, Chronic Focal
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Atrophy, Focal
	Hardarian Gland	Inflammation, Granulomatous Focal
	Hardarian Gland	Tissue Examined
Kidney	Tubule	Atrophy, Focal
		Glomerulosclerosis, Nos
		Hepatocellular Carcinoma, Metastatic
Liver		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
		Hepatocellular Carcinoma, Metastatic
		Hyperplasia, Alveolar Epithelium
Preputial gland		Hyperkeratosis
		Hyperplasia, Epithelial
		Tissue Examined
Spleen		Hematopoiesis
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_025

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Focal Cellular Change Hyperplasia, Focal
Bone marrow		Hyperplasia, Diffuse
Harderian gland	Harderian Gland	Tissue Examined
Heart	Right Ventricle Nos	Fibrosis, Focal
Kidney		Pyelonephritis, Acute/Chronic
Liver		Hematopoiesis Inflammation, Chronic Focal
Lymph node	Pancreatic Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Tissue Not Examined
Salivary gland		Inflammation, Chronic Focal
Spleen		Hematopoiesis
Unspecified		Fibrosarcoma
Urinary bladder	Multiple Organs Nos	Fibrosarcoma, Metastatic Calculus, Gross Observation Only Hyperplasia, Diffuse
Zymbal gland		Inflammation, Chronic Diffuse Hyperplasia, Epithelial Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_026

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Fibrosis, Focal
	Capsule	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
		Squamous Cell Carcinoma
		Tissue Examined
Seminal vesicle		Dilatation, Nos
Skeletal muscle	Abdominal Muscle	Inflammation, Chronic Focal
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_027

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
Lung		Hyperplasia, Alveolar Epithelium
		Pneumonia, Aspiration
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Skin	Neck	Squamous Cell Carcinoma
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_028

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Focal Cellular Change
Bone marrow		Hyperplasia, Hematopoietic
Gall bladder		Inflammation, Chronic Focal
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Lung		Alveolar/Bronchiolar Adenoma
Preputial gland		Tissue Not Examined
Skeletal muscle	Abdominal Muscle	Inflammation, Chronic Focal
Spleen		Hematopoiesis
Unspecified	Back	Fibrosarcoma
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_029

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Brain	Thalamus	Mineralization
Harderian gland	Harderian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mesenteric Lymph Node	Dilatation, Nos
	Mesenteric Lymph Node	Hematopoiesis
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_030

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule Medulla	Focal Cellular Change Hyperplasia, Focal Hyperplasia, Focal Pheochromocytoma
Eye	Crystalline Lens Cornea Crystalline Lens Cornea	Cataract Inflammation, Acute Rupture Ulcer, Nos
Harderian gland	Hardarian Gland Hardarian Gland	Adenoma, Nos Tissue Examined
Lung		Alveolar/Bronchiolar Carcinoma
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Inflammation, Chronic Focal Tissue Examined
Skin	Back	Inflammation, Chronic Focal
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_031

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Preputial gland		Inflammation, Acute/Chronic Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Seminal vesicle		Dilatation, Nos
Testis	Spermatogenic Epithelium	Mineralization
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_032

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland

Thalamus  
Harderian Gland  
Harderian Gland

Liver  
Lung  
Preputial gland  
Prostate  
Salivary gland

Skeletal muscle  
Unspecified

Zymbal gland

Abdominal Muscle  
Back  
Thorax

Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Hepatocellular Carcinoma  
Hepatocellular Carcinoma, Metastatic  
Tissue Not Examined  
Inflammation, Chronic Focal  
Inflammation, Chronic Focal  
Inflammation, Acute Focal  
Fibrosarcoma  
Neurofibrosarcoma  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_033

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland

Hardarian Gland  
Hardarian Gland  
Hardarian Gland

Heart

Pheochromocytoma  
Adenoma, Nos  
Inflammation, Chronic Focal  
Tissue Examined  
Inflammation, Acute Focal  
Thrombosis, Nos  
Pyelonephritis, Chronic  
Tissue Not Examined  
Tissue Not Examined

Kidney  
Preputial gland  
Zymbal gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_034

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Lung		Hemorrhage
		Mineralization
Lymph node	Mesenteric Lymph Node	Dilatation, Nos
	Mesenteric Lymph Node	Hematopoiesis
	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Squamous Cell Carcinoma
		Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Squamous Cell Carcinoma
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_035

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Kidney  
Liver

Thalamus  
Hardarian Gland

Mineralization  
Tissue Examined  
Glomerulonephritis, Chronic  
Cell-Size Alteration  
Hepatocellular Carcinoma  
Necrosis, Coagulative  
Tissue Examined  
Inflammation, Chronic Focal  
Hemorrhage  
Tissue Examined

Preputial gland  
Salivary gland  
Spleen  
Zymbal gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_036

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 050.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Eye

Harderian gland

Lymph node

Preputial gland

Seminal vesicle

Spleen

Zymbal gland

Cornea

Cornea

Hardarian Gland

Hardarian Gland

Hardarian Gland

Mandibular Lymph Node

Focal Cellular Change

Inflammation, Acute Focal

Ulcer, Nos

Adenoma, Nos

Hyperplasia, Focal

Tissue Examined

Plasmacytosis

Hyperplasia, Epithelial

Tissue Examined

Dilatation, Nos

Lymphoma, Histiocytic-Malignant Type

Hyperplasia, Epithelial

Squamous Cell Carcinoma

Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_037

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Kidney  
Liver

Thalamus  
Harderian Gland  
Tubule

Pancreas  
Pituitary gland  
Preputial gland  
Spleen  
Unspecified

Islets

Urinary bladder  
Zymbal gland

Mediastinum Nos  
Mediastinum Nos

Mineralization  
Tissue Examined  
Pigmentation, Nos  
Hemangiosarcoma  
Hepatocellular Carcinoma  
Hyperplasia, Focal  
Hyperplasia, Eosinophilic  
Tissue Not Examined  
Hematopoiesis  
Hepatocellular Carcinoma, Metastatic  
Inflammation, Acute/Chronic  
Inflammation, Chronic Focal  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_038

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Abscess, Nos Nephropathy Pyelonephritis, Focal
Lung		Alveolar/Bronchiolar Carcinoma
Preputial gland		Squamous Cell Carcinoma Tissue Examined
Skin	Back	Squamous Cell Carcinoma
Spleen		Hematopoiesis
Zymbal gland		Hyperplasia, Epithelial Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_039

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hematopoiesis
Brain	Thalamus	Mineralization
Epididymis		Hemorrhage
Harderian gland	Harderian Gland	Tissue Examined
Intestine Large	Colon	Parasitism
Kidney		Mineralization
Liver		Necrosis, Coagulative
Lung		Inflammation, Chronic Focal
Lymph node	Mesenteric Lymph Node	Angiectasis
Preputial gland		Tissue Not Examined
Spleen		Hematopoiesis
Unspecified	Back	Fibrosarcoma
	Multiple Organs Nos	Leukemia, Nos
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_040

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 050.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Harderian gland  
Kidney

Harderian Gland  
Pelvis  
Pelvis

Liver  
Penis

Tissue Examined  
Mineralization  
Necrosis, Coagulative  
Cell-Size Alteration  
Inflammation, Chronic Focal  
Ulcer, Acute

Preputial gland  
Prostate  
Seminal vesicle  
Zymbal gland

Prepuce Nos  
Prostatic Urethra

Tissue Examined  
Inflammation, Acute Diffuse  
Inflammation, Acute Focal  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_041

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland

Thalamus  
Harderian Gland  
Harderian Gland

Kidney  
Liver  
Lung  
Lymph node  
Preputial gland

Mandibular Lymph Node

Spleen  
Zymbal gland

Mineralization  
Adenoma, Nos  
Tissue Examined  
Nephropathy  
Hepatocellular Carcinoma  
Hepatocellular Carcinoma, Metastatic  
Hyperplasia, Lymphoid  
Hyperplasia, Epithelial  
Inflammation, Acute/Chronic  
Tissue Examined  
Hyperplasia, Lymphoid  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_042

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Heart

Hardarian Gland  
Myocardium Nos

Liver  
Lung

Tissue Examined  
Degeneration, Nos  
Inflammation, Chronic Focal  
Hepatocellular Carcinoma  
Alveolar Macrophages  
Alveolar/Bronchiolar Carcinoma  
Hemorrhage  
Tissue Not Examined  
Tissue Not Examined

Preputial gland  
Zymbal gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_043

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland

Capsule  
Hardarian Gland  
Hardarian Gland

Kidney  
Preputial gland

Hyperplasia, Focal  
Hyperplasia, Focal  
Tissue Examined  
Nephropathy  
Squamous Cell Carcinoma  
Tissue Examined  
Squamous Cell Papilloma  
Abscess, Nos  
Hyperplasia, Epithelial  
Tissue Examined

Stomach  
Unspecified  
Zymbal gland

Cardiac Stomach  
Abdomen

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_044

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal Pheochromocytoma
Brain	Thalamus	Mineralization
Epididymis		Granuloma, Spermatic Lymphocytic Inflammatory Infiltrate
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Glomerulonephritis, Chronic
Liver		Cell-Size Alteration Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Adenoma Hepatocellular Carcinoma, Metastatic Hyperplasia, Alveolar Epithelium
Preputial gland		Tissue Not Examined
Zymbal gland		Hyperplasia, Epithelial Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_045

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain		Hemorrhage
Harderian gland	Hardarian Gland	Tissue Examined
Lung		Hemorrhage
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Tissue Not Examined
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_046

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Blood		Leukocytosis, Nos
Bone marrow		Angiectasis
Brain	Thalamus	Mineralization
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Tissue Examined
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Hepatocytes	Focal Cellular Change
Lymph node	Mesenteric Lymph Node	Hematopoiesis
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
Preputial gland		Tissue Not Examined
Spleen	Red Pulp	Hematopoiesis
		Hematopoiesis
Unspecified	Back	Fibrosarcoma
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_047

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland

Hardarian Gland

Hyperplasia, Focal

Lung

Hardarian Gland

Tissue Examined

Preputial gland

Alveolar/Bronchiolar Carcinoma

Zymbal gland

Tissue Not Examined

Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_048

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Capsule	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Harderian gland	Harderian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Lymph node	Mesenteric Lymph Node	Dilatation, Nos
	Cervical Lymph Node Nos	Hyperplasia, Lymphoid
	Cervical Lymph Node Nos	Plasmacytosis
	Mandibular Lymph Node	Plasmacytosis
Preputial gland		Tissue Not Examined
Zymbal gland		Hyperplasia, Epithelial
		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_049

**TRT#:** 3  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Harderian gland	Hardarian Gland Hardarian Gland	Adenoma, Nos Tissue Examined
Kidney		Nephropathy
Lung		Alveolar/Bronchiolar Carcinoma
Pancreas	Acinus	Atrophy, Diffuse
Preputial gland		Squamous Cell Carcinoma Tissue Examined
Seminal vesicle		Atrophy, Diffuse Dilatation, Nos
Skin	Back	Inflammation, Chronic Focal
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_050

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 050.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Zona Fasciculata	Lipoidosis
Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Hardarian Gland	Adenoma, Nos
	Hardarian Gland	Hyperplasia, Focal
	Hardarian Gland	Tissue Examined
Lymph node	Mandibular Lymph Node	Depletion, Lymphoid
		Hemosiderosis
Preputial gland		Tissue Examined
Spleen	Red Pulp	Hematopoiesis
Thymus	Cortex	Depletion, Lymphoid
Unspecified	Chest	Fibrosarcoma
	Mediastinum Nos	Hemorrhage
	Abdomen	Inflammation, Chronic Focal
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_001

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Kidney  
Liver

Hardarian Gland

Lung

Tissue Examined  
Nephropathy  
Cytoplasmic Change, Basophilic  
Inflammation, Chronic Focal  
Alveolar Macrophages  
Alveolar/Bronchiolar Carcinoma  
Hemorrhage  
Tissue Examined  
Tissue Not Examined

Preputial gland  
Zymbal gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_002

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Epididymis  
Harderian gland  
Kidney  
Lung

Harderian Gland

Lymph node  
Preputial gland  
Prostate  
Zymbal gland

Mandibular Lymph Node

Lymphocytic Inflammatory Infiltrate  
Tissue Examined  
Nephropathy  
Alveolar Macrophages  
Alveolar/Bronchiolar Adenoma  
Alveolar/Bronchiolar Carcinoma  
Hemorrhage  
Tissue Examined  
Lymphocytic Inflammatory Infiltrate  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_003

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland

Hardarian Gland  
Hardarian Gland

Inflammation, Chronic Focal  
Tissue Examined

Kidney

Nephropathy

Liver

Hepatocellular Adenoma

Lymph node

Mandibular Lymph Node  
Mandibular Lymph Node

Hyperplasia, Lymphoid  
Pigmentation, Nos

Preputial gland

Tissue Not Examined

Zymbal gland

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_004

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Gall bladder		Inflammation, Chronic Focal
Harderian gland	Harderian Gland	Tissue Examined
Liver		Focal Cellular Change
		Inflammation, Acute Focal
Lung		Hemorrhage
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Inflammation, Acute/Chronic
Preputial gland		Inflammation, Acute
		Tissue Examined
Salivary gland		Inflammation, Chronic Focal
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_005

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Gall bladder		Inflammation, Acute Focal
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
	Hardarian Gland	Tissue Examined
Liver		Hepatocellular Carcinoma
		Necrosis, Coagulative
Preputial gland		Inflammation, Acute Focal
		Tissue Examined
Prostate		Inflammation, Chronic Focal
Zymbal gland		Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_006

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Pancreas  
Preputial gland  
Stomach  
Unspecified  
Zymbal gland

Thalamus  
Harderian Gland  
Peripancreatic Tissue  
  
Cardiac Stomach  
Multiple Organs Nos

Mineralization  
Tissue Examined  
Inflammation, Acute/Chronic  
Tissue Not Examined  
Squamous Cell Papilloma  
Lymphoma, Nos-Malignant  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_007

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Kidney

Thalamus  
Hardarian Gland

Tubule

Liver  
Preputial gland  
Unspecified  
Zymbal gland

Multiple Organs Nos

Mineralization  
Tissue Examined  
Clear-Cell Change  
Mineralization  
Nephropathy  
Cytoplasmic Change, Basophilic  
Tissue Not Examined  
Inflammation, Chronic Focal  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_008

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Heart  
Intestine Small  
Kidney  
Lung

Harderian Gland  
Myocardium Nos  
Jejunum

Preputial gland

Prostate  
Unspecified  
Zymbal gland

Periprostatic Tissue  
Multiple Organs Nos

Tissue Examined  
Degeneration, Nos  
Inflammation, Acute Diffuse  
Nephropathy  
Alveolar Macrophages  
Alveolar/Bronchiolar Carcinoma  
Inflammation, Acute/Chronic  
Tissue Examined  
Periarteritis  
Inflammation, Chronic Focal  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_009

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Heart  
Kidney  
Liver  
Lymph node  
  
Preputial gland  
Spleen  
Zymbal gland

Hardarian Gland  
  
Tubule  
Hepatocytes  
Mediastinal Lymph Node  
Mesenteric Lymph Node

Hemorrhage  
Tissue Examined  
Mineralization  
Necrosis, Focal  
Necrosis, Focal  
Depletion, Lymphoid  
Depletion, Lymphoid  
Tissue Not Examined  
Depletion, Lymphoid  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_010

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland

Hardarian Gland  
Hardarian Gland

Inflammation, Chronic Focal  
Tissue Examined

Kidney

Nephropathy

Liver

Hepatocellular Adenoma

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Preputial gland

Tissue Not Examined

Zymbal gland

Dilatation, Ducts

Hyperplasia, Focal

Inflammation, Acute/Chronic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_011

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland  
Kidney  
Nerve, peripheral  
Preputial gland

Capsule  
Hardarian Gland

Thyroid

Zymbal gland

Hyperplasia, Focal  
Tissue Examined  
Embryonal Rest  
Inflammation, Chronic Focal  
Inflammation, Chronic Focal  
Tissue Examined  
Follicular-Cell Adenoma  
Hyperplasia, Follicular Cell  
Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 4\_012

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland  
Liver  
Preputial gland  
Zymbal gland

Hardarian Gland

Tissue Examined  
Hepatocellular Adenoma  
Tissue Not Examined  
Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_013

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland

Hardarian Gland  
Hardarian Gland

Inflammation, Chronic Focal  
Tissue Examined

Kidney

Nephropathy

Liver

Hepatocellular Carcinoma

Lung

Congestion, Acute

Lymph node

Mandibular Lymph Node

Histiocytosis

Preputial gland

Tissue Not Examined

Salivary gland

Inflammation, Chronic Focal

Seminal vesicle

Dilatation, Nos

Unspecified

Mediastinum Nos

Hemorrhage

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_014

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule	Focal Cellular Change Hyperplasia, Focal
Epididymis		Inflammation, Chronic Focal
Harderian gland	Hardarian Gland Hardarian Gland	Carcinoma, Nos Tissue Examined
Kidney		Nephropathy
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Tissue Not Examined
Prostate		Inflammation, Chronic Focal
Salivary gland		Lymphocytic Inflammatory Infiltrate
Spleen		Hyperplasia, Lymphoid
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_015

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Dosing Accident

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Preputial gland  
Unspecified  
Zymbal gland

Hardarian Gland  
Mediastinum Nos

Tissue Examined  
Tissue Examined  
Hemorrhage  
Tissue Not Examined

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_016

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Kidney  
Liver  
Preputial gland

Harderian Gland  
Tubule

Spleen  
Thymus  
Unspecified

Back  
Back

Zymbal gland

Tissue Examined  
Dilatation, Nos  
N-C Ratio Alteration  
Dilatation, Ducts  
Tissue Examined  
Ulcer, Nos  
Depletion, Lymphoid  
Depletion, Lymphoid  
Cyst, Multiple  
Inflammation, Multifocal  
Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_017

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Brain  
Harderian gland

Thalamus  
Harderian Gland  
Harderian Gland

Kidney  
Liver  
Preputial gland  
Zymbal gland

Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Nephropathy  
Hepatocellular Adenoma  
Tissue Not Examined  
Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_018

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Kidney  
Lung  
Lymph node  
Preputial gland  
Seminal vesicle

Hardarian Gland

Mandibular Lymph Node

Urinary bladder  
Zymbal gland

Tissue Examined  
Nephropathy  
Inflammation, Acute/Chronic  
Hemosiderosis  
Tissue Not Examined  
Dilatation, Nos  
Hyperplasia, Diffuse  
Inflammation, Chronic Focal  
Inflammation, Chronic Focal  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_019

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Blood vessel	Artery Nos	Inflammation, Acute/Chronic
Brain	Thalamus	Mineralization
Gall bladder		Inflammation, Acute Diffuse
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Clear-Cell Change
		Hepatocellular Adenoma
		Hepatocellular Carcinoma
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Tissue Not Examined
Salivary gland		Inflammation, Chronic Focal
Stomach	Fundal Gland	Dilatation, Nos
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_020

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Kidney  
Lymph node  
Penis  
Preputial gland

Harderian Gland  
Tubule  
Renal Lymph Node  
Prepuce Nos

Prostate

Prostatic Urethra

Thymus  
Zymbal gland

Tissue Examined  
Dilatation, Nos  
Plasmacytosis  
Inflammation, Acute Necrotizing  
Inflammation, Acute Focal  
Tissue Examined  
Inflammation, Acute Diffuse  
Inflammation, Acute Focal  
Depletion, Lymphoid  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_021

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Liver

Harderian Gland  
Bile Duct  
Hepatocytes

Tissue Examined  
Hyperplasia, Focal  
Nuclear Enlargement

Preputial gland  
Thymus  
Unspecified

Cortex  
Back  
Multiple Organs Nos

Tissue Not Examined  
Depletion, Lymphoid  
Fibrosarcoma  
Fibrosarcoma, Metastatic  
Tissue Examined

Zymbal gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_022

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland

Hardarian Gland

Inflammation, Chronic Focal

Kidney

Hardarian Gland

Tissue Examined

Lung

Nephropathy

Lymph node

Mandibular Lymph Node

Lymphocytic Inflammatory Infiltrate

Preputial gland

Hyperplasia, Lymphoid

Salivary gland

Inflammation, Chronic Focal

Zymbal gland

Tissue Examined

Lymphocytic Inflammatory Infiltrate

Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_023

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Kidney  
Liver  
Lymph node  
Preputial gland  
Spleen  
Unspecified  
Zymbal gland

Thalamus  
Hardarian Gland  
  
Mandibular Lymph Node  
  
Multiple Organs Nos

Mineralization  
Tissue Examined  
Nephropathy  
Hepatocellular Adenoma  
Hyperplasia, Lymphoid  
Tissue Examined  
Hyperplasia, Lymphoid  
Inflammation, Chronic Focal  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_024

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland

Hardarian Gland  
Hardarian Gland

Inflammation, Chronic Focal  
Tissue Examined

Kidney

Nephropathy

Liver

Hemangiosarcoma

Lung

Alveolar/Bronchiolar Adenoma

Lymph node

Mandibular Lymph Node

Lymphocytic Inflammatory Infiltrate

Preputial gland

Hyperplasia, Lymphoid

Inflammation, Acute/Chronic

Tissue Examined

Prostate

Inflammation, Chronic Focal

Salivary gland

Inflammation, Chronic Focal

Stomach

Cardiac Stomach

Inflammation, Acute/Chronic

Unspecified

Cardiac Stomach

Squamous Cell Papilloma

Zymbal gland

Multiple Organs Nos

Hemangiosarcoma, Metastatic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_025

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland

Hardarian Gland  
Hardarian Gland

Inflammation, Chronic Focal  
Tissue Examined

Heart

Kidney

Mineralization

Lymph node

Mandibular Lymph Node

Nephropathy

Preputial gland

Inflammation, Chronic Focal

Prostate

Tissue Not Examined

Prostatic Urethra

Dilatation, Nos

Prostatic Urethra

Retention Of Content

Zymbal gland

Inflammation, Chronic Focal

Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_026

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland  
Kidney  
Liver  
Lung  
Preputial gland

Thalamus  
Hardarian Gland

Salivary gland  
Stomach

Unspecified

Mediastinum Nos  
Mediastinum Nos

Zymbal gland

Mineralization  
Tissue Examined  
Nephropathy  
Hepatocellular Carcinoma  
Hepatocellular Carcinoma, Metastatic  
Dilatation, Ducts  
Inflammation, Acute/Chronic  
Tissue Examined  
Inflammation, Chronic Focal  
Erosion  
Hemorrhage  
Hemorrhage  
Hepatocellular Carcinoma, Metastatic  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_027

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Dosing Accident

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Esophagus	Periesophageal Tissue	Inflammation, Acute Focal
Harderian gland	Harderian Gland	Tissue Examined
Heart	Pericardium Nos	Inflammation, Acute Focal
Lung		Inflammation, Acute Focal
Preputial gland		Tissue Not Examined
Thymus	Lymphocytes	Necrosis, Nos
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 4\_028

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland

Hardarian Gland

Inflammation, Chronic Focal

Liver

Hardarian Gland

Tissue Examined

Preputial gland

Cell-Size Alteration

Prostate

Tissue Not Examined

Unspecified

Inflammation, Chronic Focal

Zymbal gland

Fibrosarcoma

Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_029

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Hardarian Gland	Tissue Examined
Liver		Hepatocellular Carcinoma
Lung		Hyperplasia, Alveolar Epithelium
Preputial gland		Tissue Not Examined
Spleen		Depletion, Lymphoid
	Red Pulp	Hematopoiesis
Thymus	Cortex	Depletion, Lymphoid
		Mineralization
Unspecified	Back	Fibrosarcoma
	Multiple Organs Nos	Lymphoma, Nos-Malignant
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_030

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Intestine Large  
Intestine Small

Harderian Gland  
Cecum, Colon  
Duodenum  
Jejunum

Preputial gland  
Prostate  
Salivary gland  
Spleen  
Unspecified  
Zymbal gland

Back

Tissue Examined  
Parasitism  
Parasitism  
Parasitism  
Tissue Examined  
Inflammation, Chronic Focal  
Inflammation, Chronic Focal  
Hematopoiesis  
Fibrosarcoma  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_031

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Kidney

Hardarian Gland

Tissue Examined  
Cyst, Nos  
Nephropathy

Preputial gland

Hyperplasia, Diffuse

Unspecified

Back  
Multiple Organs Nos

Tissue Examined  
Fibrosarcoma  
Inflammation, Chronic Focal  
Hyperplasia, Focal  
Tissue Examined

Zymbal gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_032

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland

Thalamus  
Harderian Gland  
Harderian Gland

Kidney  
Liver

Tubule

Lymph node

Bronchial Lymph Node  
Mandibular Lymph Node

Preputial gland  
Prostate  
Salivary gland  
Zymbal gland

Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Necrosis, Focal  
Hemangiosarcoma  
Necrosis, Diffuse  
Hemorrhage  
Hemosiderosis  
Tissue Not Examined  
Inflammation, Chronic Focal  
Inflammation, Chronic Focal  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_033

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Liver

Hardarian Gland

Tissue Examined  
Hematopoiesis  
Hepatocellular Adenoma  
Alveolar/Bronchiolar Adenoma

Lung  
Lymph node

Mesenteric Lymph Node  
Mesenteric Lymph Node

Edema, Nos  
Hemorrhage

Preputial gland  
Prostate

Tissue Examined  
Inflammation, Chronic Focal  
Inflammation, Chronic Focal

Salivary gland  
Spleen

Hematopoiesis

Thyroid

Hyperplasia, Follicular Cell

Unspecified

Multiple Organs Nos

Lymphoma, Nos-Malignant

Zymbal gland

Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_034

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Harderian gland  
Kidney

Hardarian Gland

Lung  
Preputial gland  
Spleen  
Unspecified

Back  
Leg  
Multiple Organs Nos

Pheochromocytoma  
Tissue Examined  
Lymphocytic Inflammatory Infiltrate  
Nephropathy  
Alveolar/Bronchiolar Carcinoma  
Tissue Not Examined  
Hematopoiesis  
Fibrosarcoma  
Fibrosarcoma  
Inflammation, Chronic Focal  
Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_035

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Epididymis		Inflammation, Granulomatous Focal
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Mammary gland		Hyperplasia, Cystic
Preputial gland		Tissue Not Examined
Spleen		Lymphoma, Nos-Malignant
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_036

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Eye	Crystalline Lens	Cataract
Harderian gland	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas		Inflammation, Chronic Focal
Preputial gland		Tissue Not Examined
Prostate		Inflammation, Chronic Focal
Urinary bladder		Inflammation, Chronic Focal
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_037

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Brain  
Harderian gland

Thalamus  
Harderian Gland  
Harderian Gland

Kidney  
Preputial gland

Zymbal gland

Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Nephropathy  
Inflammation, Acute/Chronic  
Tissue Examined  
Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_038

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Liver

Hardarian Gland

Tissue Examined  
Hemangiosarcoma

Preputial gland  
Salivary gland  
Spleen

Centrilobular

Necrosis, Diffuse  
Tissue Examined  
Inflammation, Chronic Focal  
Depletion, Lymphoid

Zymbal gland

Red Pulp

Hematopoiesis  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_039

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland

Harderian Gland  
Harderian Gland

Kidney  
Preputial gland  
Prostate  
Salivary gland  
Thymus  
Urinary bladder

Prostatic Urethra  
  
Cortex  
Mucosa  
Submucosa  
Mucosa

Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Inflammation, Acute Suppurative  
Tissue Not Examined  
Retention Of Content  
Inflammation, Chronic Focal  
Depletion, Lymphoid  
Inflammation, Acute Diffuse  
Inflammation, Acute/Chronic  
Mineralization  
Tissue Not Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_040

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Brain  
Harderian gland  
Kidney  
Lymph node  
Preputial gland

Thalamus  
Hardarian Gland  
  
Mandibular Lymph Node

Mineralization  
Tissue Examined  
Nephropathy  
Hyperplasia, Lymphoid  
Dilatation, Nos  
Inflammation, Acute Focal  
Tissue Examined  
Tissue Examined

Zymbal gland

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_041

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Liver

Hardarian Gland

Tissue Examined  
Hepatocellular Carcinoma  
Necrosis, Focal

Pancreas  
Preputial gland  
Salivary gland  
Zymbal gland

Acinus

Atrophy, Focal  
Tissue Not Examined  
Inflammation, Chronic Focal  
Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_042

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Harderian gland  
Liver

Hardarian Gland

Tissue Examined  
Hepatocellular Carcinoma  
Necrosis, Coagulative  
Alveolar/Bronchiolar Carcinoma  
Histiocytosis

Lung

Pancreas  
Preputial gland

Islets

Islet-Cell Adenoma  
Inflammation, Chronic Focal  
Tissue Examined

Stomach

Cardiac Stomach  
Cardiac Stomach  
Cardiac Stomach  
Cardiac Stomach

Hyperkeratosis  
Hyperplasia, Epithelial  
Inflammation, Acute/Chronic  
Ulcer, Nos  
Tissue Examined

Zymbal gland

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_043

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland  
Kidney  
Preputial gland  
Salivary gland  
Urinary bladder  
Zymbal gland

Hardarian Gland

Tissue Examined  
Nephropathy  
Tissue Not Examined  
Inflammation, Chronic Focal  
Inflammation, Chronic Focal  
Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_044

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Cortex Nos Medulla	Cytoplasmic Matrix Alteration Degeneration, Hyaline Hyperplasia, Focal Hyperplasia, Focal
Blood vessel	Adrenal Artery	Pigmentation, Nos
Harderian gland	Hardarian Gland Hardarian Gland Hardarian Gland	Degeneration, Nos Distention Tissue Examined
Kidney		Glomerulonephritis, Chronic
Liver		Hepatocellular Carcinoma Necrosis, Coagulative
Lung		Alveolar/Bronchiolar Adenoma Histiocytosis Mineralization
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Tissue Not Examined
Thyroid		Hyperplasia, Follicular Cell
Zymbal gland		Tissue Examined

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_045

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Harderian gland

Cortex Nos  
Hardarian Gland  
Hardarian Gland

Kidney  
Pancreas  
Preputial gland  
Thyroid  
Zymbal gland

Cytoplasmic Matrix Alteration  
Inflammation, Chronic Focal  
Tissue Examined  
Nephropathy  
Inflammation, Chronic Focal  
Tissue Not Examined  
Follicular-Cell Adenoma  
Tissue Examined

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_046

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Brain  
Harderian gland  
  
Kidney  
Liver  
Lung  
Preputial gland  
Salivary gland  
Zymbal gland

Cortex Nos  
Thalamus  
Hardarian Gland  
Hardarian Gland

Cytoplasmic Matrix Alteration  
Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Nephropathy  
Hepatocellular Carcinoma  
Alveolar/Bronchiolar Adenoma  
Tissue Not Examined  
Inflammation, Chronic Focal  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_047

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Brain  
Harderian gland

Thalamus  
Hardarian Gland  
Hardarian Gland

Kidney  
Lung  
Preputial gland  
Urinary bladder  
Zymbal gland

Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Nephropathy  
Alveolar/Bronchiolar Adenoma  
Tissue Not Examined  
Inflammation, Chronic Focal  
Tissue Examined

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_048

**TRT#:** 4  
**DOSE:** 0

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

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Harderian gland  
Lymph node  
Preputial gland

Harderian Gland  
Mandibular Lymph Node

Tissue Examined  
Hyperplasia, Lymphoid  
Inflammation, Chronic Focal

Unspecified  
Zymbal gland

Multiple Organs Nos

Tissue Examined  
Amyloidosis  
Tissue Examined

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 4\_049

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Brain  
Harderian gland

Thalamus  
Harderian Gland  
Harderian Gland

Kidney  
Preputial gland

Mineralization  
Inflammation, Chronic Focal  
Tissue Examined  
Nephropathy  
Inflammation, Chronic Focal  
Tissue Examined  
Tissue Examined

Zymbal gland

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 4\_050

**TRT#:** 4  
**DOSE:** 0

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Kidney  
Preputial gland  
Thyroid  
Zymbal gland

Hardarian Gland

Tissue Examined  
Nephropathy  
Tissue Not Examined  
Follicular-Cell Adenoma  
Tissue Examined

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_051

**TRT#:** 5  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Liver		Hepatocellular Adenoma
Testis	Tubule	Atrophy, Diffuse

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_052

**TRT#:** 5  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Large  
Kidney  
Pancreas

Colon  
Tubule  
Acinus

Parasitism  
Degeneration, Nos  
Atrophy, Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_053

**TRT#:** 5  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney

Tubule

Degeneration, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_054

**TRT#:** 5  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Testis

Capsule  
Tubule

Hyperplasia, Focal  
Atrophy, Focal

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_055

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Capsule

Hyperplasia, Focal

Kidney

Tubule

Degeneration, Nos

Lung

Hyperplasia, Lymphoid

Inflammation, Interstitial

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**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_056

**TRT#:** 5  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney

Capsule  
Tubule  
Cortex  
Tubule

Hyperplasia, Focal  
Degeneration, Nos  
Inflammation, Interstitial  
Atrophy, Focal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_057

**TRT#:** 5  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Lung

Capsule

Hyperplasia, Focal  
Hyperplasia, Lymphoid  
Hyperplasia, Alveolar Epithelium  
Inflammation, Interstitial

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_058

**TRT#:** 5  
**DOSE:** 100.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver Inflammation, Granulomatous Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 5\_059

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100.0 MG/KG

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Hyperplasia, Lymphoid

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_051

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Kidney  
Liver  
Lung  
Unspecified

Harderian Gland  
Tubule  
Hepatocytes

Hyperplasia, Epithelial  
Degeneration, Nos  
Cytoplasmic Vacuolization  
Inflammation, Interstitial  
Inflammation, Granulomatous Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_052

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney	Tubule	Degeneration, Nos Hyperplasia, Lymphoid
Liver	Hepatocytes	Cytoplasmic Vacuolization
Unspecified		Inflammation, Granulomatous Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_053

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Hyperplasia, Lymphoid
Pancreas	Islets	Hyperplasia, Focal
Salivary gland		Hyperplasia, Lymphoid
Spleen		Hyperplasia, Lymphoid

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_054

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Eye	Crystalline Lens	Degeneration, Nos
Kidney	Tubule	Degeneration, Nos Hyperplasia, Lymphoid Inflammation, Interstitial
Liver	Hepatocytes	Degeneration, Nos
	Hepatocytes	Necrosis, Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_055

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney	Tubule	Degeneration, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
Spleen		Hyperplasia, Lymphoid

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_056

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney  
Spleen

Tubule

Degeneration, Nos  
Hyperplasia, Lymphoid

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_058

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver  
Spleen

Capsule  
  
Hepatocytes

Hyperplasia, Focal  
Inflammation, Interstitial  
Cytoplasmic Vacuolization  
Hyperplasia, Lymphoid

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_059

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney  
Liver

Tubule  
Hepatocytes

Degeneration, Nos  
Cytoplasmic Vacuolization

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 6\_060

**TRT#:** 6  
**DOSE:** 025.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Spleen

Capsule  
Tubule

Hyperplasia, Focal  
Degeneration, Nos  
Hyperplasia, Lymphoid

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 7\_051

**TRT#:** 7  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Harderian gland  
Kidney  
Lung

Hardarian Gland  
Tubule

Papillary Adenoma  
Degeneration, Nos  
Hyperplasia, Alveolar Epithelium

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 7\_052

**TRT#:** 7  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney  
Liver

Tubule  
Hepatocytes

Degeneration, Nos  
Cytoplasmic Vacuolization

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 7\_053

**TRT#:** 7  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney	Tubule	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Adenoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 7\_056

**TRT#:** 7  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver	Hepatocytes	Cytoplasmic Vacuolization
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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 7\_057

**TRT#:** 7  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Liver

Capsule  
Hepatocytes

Hyperplasia, Focal  
Cytoplasmic Vacuolization  
Hepatocellular Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 7\_058

**TRT#:** 7  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Testis

Tubule  
Tubule

Atrophy, Focal  
Degeneration, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 7\_059

**TRT#:** 7  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Liver

Capsule  
Hepatocytes

Hyperplasia, Focal  
Cytoplasmic Vacuolization

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 7\_060

**TRT#:** 7  
**DOSE:** 050.0 MG/KG

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Intestine Large  
Liver  
Lung

Colon  
Hepatocytes

Parasitism  
Cytoplasmic Vacuolization  
Alveolar/Bronchiolar Adenoma  
Granuloma, Foreign Body

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_051

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Dosing Accident

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Esophagus  
Unspecified

Mediastinum Nos

Hemorrhage  
Hemorrhage

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_052

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney

Tubule

Degeneration, Nos  
Hyperplasia, Lymphoid  
Cytoplasmic Vacuolization

Liver

Hepatocytes

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_053

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Kidney		Hyperplasia, Lymphoid
Liver		Inflammation, Acute/Chronic
Lung		Hyperplasia, Alveolar Epithelium
Thymus	Medulla	Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_054

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney

Tubule

Degeneration, Nos  
Hyperplasia, Lymphoid

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_055

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Hepatocytes

Hyperplasia, Lymphoid

Cytoplasmic Vacuolization

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_056

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Lung Hyperplasia, Alveolar Epithelium

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_057

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Hepatocytes

Hyperplasia, Lymphoid

Cytoplasmic Vacuolization

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_058

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Liver	Hepatocytes	Cytoplasmic Vacuolization
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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_059

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Hepatocytes

Hyperplasia, Lymphoid

Cytoplasmic Vacuolization

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55276  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Benzene  
**CAS Number:** 71-43-2

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:30:24  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 8\_060

**TRT#:** 8  
**DOSE:** 0

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Eye	Substantia Propria	Degeneration, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Thymus		Cyst, Embryonal Duct

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**PRIMARY CAUSE OF DEATH**

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**\*\* END OF REPORT \*\***