

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**C Number:** C55481

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Male

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_001

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Larynx  
Liver

Cortex Nos  
Myocardium Nos

Clear-Cell Change  
Degeneration, Nos  
Nephropathy  
Inflammation, Suppurative  
Clear-Cell Change  
Cytoplasmic Change, Basophilic  
Hyperplasia, Nos  
Neoplastic Nodule  
Hemorrhage  
Histiocytosis  
Inflammation, Suppurative  
Hyperplasia, Epithelial  
Adenoma, Nos

Lung

Bile Duct

Alveoli  
Alveoli

Nasal cavity  
Pituitary gland

Nose Nos  
Anterior Pituitary

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_002

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla Medulla	Clear-Cell Change Hyperplasia, Nos Pheochromocytoma
Bone	Sternum	Fibrous Osteodystrophy
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
Heart	Myocardium Nos	Degeneration, Nos Mineralization
Kidney	Pelvis Pelvis	Hyperplasia, Epithelial Inflammation, Suppurative Mineralization Nephropathy
Liver	Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Nos
Lung	Alveoli Alveoli	Hemorrhage Histiocytosis Inflammation, Suppurative
Nasal cavity	Nose Nos Nose Nos Nose Nos Nose Nos	Fibrous Osteodystrophy Hyperplasia, Epithelial Inflammation, Suppurative Metaplasia, Squamous
Pancreas	Islets	Islet-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Hyperplasia, Epithelial Inflammation, Suppurative
Stomach	Glandular Stomach	Mineralization
Testis		Atrophy, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_003

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
	Cortex Nos	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Salivary gland		Inflammation, Suppurative
Skin		Cyst, Epidermal Inclusion
Stomach	Glandular Stomach	Inflammation, Suppurative
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Papilloma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Cortex Nos

Hyperplasia, Nos

Medulla

Hyperplasia, Nos

Bone marrow

Atrophy, Nos

Brain

Atrophy, Nos

Kidney

Nephropathy

Larynx

Inflammation, Suppurative

Liver

Granuloma, Nos

Lung

Alveoli

Histiocytosis

Nasal cavity

Nose Nos

Inflammation, Suppurative

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Salivary gland

Inflammation, Suppurative

Testis

Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_006

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hemorrhage
	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Ileum, Ileum	Adenomatous Polyp, Nos
	Mesentery Nos	Necrosis, Fat
Kidney		Nephropathy
Larynx		Foreign Body, Nos
		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas		Carcinoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_007

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
Bone	Sternum	Fibrous Osteodystrophy
Bone marrow		Atrophy, Nos
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
	Olfactory Sensory Epithelium	Metaplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
		Mineralization
Intestine Small	Mesentery Nos	Periarteritis
Kidney		Nephropathy
Liver		Congenital Malformation, Nos
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Fibrous Osteodystrophy
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Seminal vesicle		Hyperplasia, Nos
Skin		Papilloma, Nos
Stomach	Glandular Stomach	Mineralization
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Multiple Organs Nos	Periarteritis

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_008

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos Nephropathy
Kidney		Inflammation, Suppurative
Larynx		Cytoplasmic Change, Basophilic
Liver		Histiocytosis
Lung	Alveoli	Hyperplasia, Alveolar Epithelium Fibrosis
Lymph node	Mediastinal Lymph Node	Foreign Body, Nos
Nasal cavity	Nose Nos Nose Nos Nasal Gland Nose Nos Nose Nos	Hyperplasia, Epithelial Hyperplasia, Nos Inflammation, Suppurative Metaplasia, Squamous
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary Anterior Pituitary	Angiectasis Hyperplasia, Nos
Preputial gland		Acanthosis Cyst, Nos
Prostate		Inflammation, Suppurative
Salivary gland		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_009

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Hemorrhage
	Mesentery Nos	Necrosis, Fat
Kidney		Nephropathy
Larynx		Acanthosis
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Lymph node	Mesenteric Lymph Node	Sarcoma, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Suppurative
Skin		Acanthosis
		Inflammation, Suppurative
		Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Bone	Skull	Granuloma, Nos
Brain	Olfactory Sensory Epithelium	Metaplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Metamorphosis, Fatty
		Necrosis, Nos
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cyst, Nos
Skin		Inflammation, Suppurative
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Periarteritis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_011

**TRT#:** 1  
**DOSE:** 400 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Rectum	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung		Hemorrhage
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Necrosis, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Chronic

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_012

**TRT#:** 1  
**DOSE:** 400 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Preputial gland		Carcinoma, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Skin		Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Suppurative

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_013

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos	Clear-Cell Change Hyperplasia, Nos
Bone marrow		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic Granuloma, Nos
Nasal cavity	Nose Nos Nose Nos Nose Nos	Hyperplasia, Epithelial Inflammation, Suppurative
Pancreas	Acinus	Metaplasia, Squamous Cytoplasmic Change, Nos
Prostate		Hyperplasia, Epithelial
Salivary gland		Inflammation, Suppurative
Spleen		Ectopia
Stomach	Forestomach Forestomach	Acanthosis Ulcer, Nos
Testis		Atrophy, Nos Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Nos
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Nerve, peripheral		Degeneration, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Seminal vesicle		Hyperplasia, Nos
		Inflammation, Suppurative
Skin		Keratoacanthoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Multiple Organs Nos	Periarteritis

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_015

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Brain		Gliosis
	Olfactory Sensory Epithelium	Metaplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Ileum, Ileum	Granuloma, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Seminal vesicle		Hyperplasia, Nos
Skin		Cyst, Epidermal Inclusion
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_016

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Atrophy, Nos
Brain	Olfactory Sensory Epithelium	Degeneration, Nos Granular-Cell Tumor, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Capsule	Hemorrhage Nephropathy
Larynx		Hyperplasia, Epithelial Inflammation, Suppurative
Liver	Bile Duct	Hyperplasia, Nos
Lung		Foreign Body, Nos Histiocytosis Inflammation, Suppurative
Nasal cavity	Alveoli Alveoli Bronchiole	Inflammation, Suppurative Hyperplasia, Epithelial
Pancreas	Nose Nos	Inflammation, Suppurative
Testis	Nose Nos Acinus	Atrophy, Nos Atrophy, Nos Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Trachea		Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Periarteritis

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_017

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Brain		Degeneration, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Papillary Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Cyst, Epidermal Inclusion
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_018

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Brain		Degeneration, Nos
Epididymis		Mesothelioma, Malignant
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Mesothelioma, Malignant
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Stomach	Glandular Stomach	Hyperplasia, Epithelial
	Glandular Stomach	Mineralization
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Thyroid		C-Cell Adenoma
		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Brain		Hemorrhage
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos	Clear-Cell Change Hyperplasia, Nos
Bone marrow		Atrophy, Nos
Brain		Atrophy, Nos
Kidney	Pelvis Pelvis	Hyperplasia, Epithelial Inflammation, Suppurative Nephropathy
Liver	Bile Duct  Capsule	Hyperplasia, Nos Hyperplasia, Nos Inflammation, Suppurative Metamorphosis, Fatty Necrosis, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus Islets	Atrophy, Nos Islet-Cell Carcinoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Spleen		Fibrosis
Stomach	Forestomach Glandular Stomach Forestomach Glandular Stomach Glandular Stomach	Acanthosis Erosion Hyperkeratosis Hyperplasia, Epithelial Inflammation, Suppurative
Testis		Atrophy, Nos Interstitial-Cell Tumor Necrosis, Nos
Urinary bladder		Calculus, Gross Observation Only Hyperplasia, Epithelial Inflammation, Suppurative

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Papilloma, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_021

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Epididymis		Mesothelioma, Malignant
Eye	Crystalline Lens	Mineralization
	Sclera	Mineralization
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Mesothelioma, Malignant
Kidney		Nephropathy
Larynx		Hyperplasia, Epithelial
		Inflammation, Suppurative
Liver		Granuloma, Nos
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Inflammation, Suppurative
Testis		Atrophy, Nos
		Mesothelioma, Malignant

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_022

**TRT#:** 1  
**DOSE:** 400 PPM

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

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

**OBSERVATIONS**

Bone	Skull	Granuloma, Nos
Bone marrow		Hyperplasia, Hematopoietic
Brain		Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Lymph node	Bronchial Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Chronic
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_023

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Brain	Olfactory Sensory Epithelium Olfactory Sensory Epithelium	Atrophy, Nos Degeneration, Nos Metaplasia, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Nos
Nasal cavity	Nose Nos Nose Nos	Hyperplasia, Epithelial Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Atrophy, Nos Interstitial-Cell Tumor
Zymbal gland		Carcinoma, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_024

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney	Pelvis	Inflammation, Suppurative Mineralization Nephropathy
Lung	Alveoli	Histiocytosis
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_025

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Chronic
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Stomach	Forestomach	Acanthosis
	Forestomach	Erosion
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Periarteritis

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_026

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Small  
Kidney  
Liver  
  
Lung  
  
Nasal cavity  
  
Testis

Cortex Nos  
Myocardium Nos  
Mesentery Nos  
  
Bile Duct  
Alveoli  
  
Alveoli  
Nose Nos  
Nose Nos

Clear-Cell Change  
Degeneration, Nos  
Necrosis, Fat  
Nephropathy  
Cytoplasmic Change, Basophilic  
Hyperplasia, Nos  
Histiocytosis  
Hyperplasia, Alveolar Epithelium  
Inflammation, Suppurative  
Hyperplasia, Epithelial  
Inflammation, Suppurative  
Atrophy, Nos  
Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_027

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
	Olfactory Sensory Epithelium	Metaplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Angiectasis
Preputial gland		Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
		Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_028

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Pelvis	Inflammation, Suppurative
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Hyperplasia, Nos
	Islets	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cyst, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Suppurative
Seminal vesicle		Hyperplasia, Nos
		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Hemorrhage
		Hyperplasia, Epithelial
		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_029

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos	Clear-Cell Change Hyperplasia, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos Hyperplasia, Nos
Lung	Alveoli	Histiocytosis Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
Preputial gland		Acanthosis Adenoma, Nos Cyst, Nos Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030	TRT#: 1 DOSE: 400 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
<b>OBSERVATIONS</b>			
Adrenal gland	Cortex Nos Medulla Medulla	Clear-Cell Change Hyperplasia, Nos Pheochromocytoma	
Brain	Olfactory Sensory Epithelium	Degeneration, Nos	
Esophagus		Hyperkeratosis	
Kidney		Nephropathy	
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic	
	Bile Duct	Hyperplasia, Nos Metamorphosis, Fatty Necrosis, Nos	
Nasal cavity	Nose Nos Nose Nos Nose Nos Nose Nos	Foreign Body, Nos Hyperplasia, Epithelial Inflammation, Suppurative Metaplasia, Squamous	
Pituitary gland	Anterior Pituitary	Adenoma, Nos	
Preputial gland		Inflammation, Suppurative	
Salivary gland		Dilatation, Ducts Inflammation, Suppurative	
Spleen		Fibrosis	
Stomach	Forestomach	Hyperkeratosis	
Testis		Interstitial-Cell Tumor	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	
PRIMARY CAUSE OF DEATH	-		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_031

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Angiectasis
		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Suppurative
Skin		Sebaceous Adenoma
		Squamous Cell Papilloma
Testis		Atrophy, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_032

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone	Skull	Exostosis
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
Epididymis		Mesothelioma, Malignant
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Mesothelioma, Malignant
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Stomach	Glandular Stomach	Atrophy, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_033

**TRT#:** 1  
**DOSE:** 400 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Kidney		Nephropathy
Liver	Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Nos Hyperplasia, Nos
Lung	Alveoli	Histiocytosis Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Salivary gland		Dilatation, Ducts
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_034

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Pheochromocytoma
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Nasal cavity	Nose Nos	Hemorrhage
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
	Islets	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
Preputial gland		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_035

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Mammary gland

Fibroadenoma

Pancreas

Acinus

Atrophy, Nos

Preputial gland

Cyst, Nos

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_036

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Necrosis, Nos
	Medulla	Necrosis, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Suppurative
	Nose Nos	Thrombosis, Nos
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Acanthosis
		Cyst, Nos
Prostate		Adenoma, Nos
Salivary gland		Dilatation, Ducts
		Hyperplasia, Nos
		Inflammation, Suppurative
Skin		Fibroma
Spleen		Necrosis, Nos
Stomach	Forestomach	Acanthosis
	Glandular Stomach	Inflammation, Suppurative
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_037

**TRT#:** 1  
**DOSE:** 400 PPM

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

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

**OBSERVATIONS**

Eye	Crystalline Lens Retina	Cataract Degeneration, Nos Inflammation, Suppurative
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Preputial gland		Cyst, Nos Inflammation, Suppurative
Skin		Acanthosis Ulcer, Nos
Testis		Atrophy, Nos Interstitial-Cell Tumor Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_038

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Atrophy, Nos
Brain		Mineralization
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Alveolar/Bronchiolar Adenoma
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Islets	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Angiectasis
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Periarteritis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_039

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Brain

Hemorrhage

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_040

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Atrium	Thrombosis, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Skin		Trichoepithelioma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_041

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Bone marrow		Atrophy, Nos
Brain		Atrophy, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Granuloma, Nos
Lung	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_042

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen		Necrosis, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

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<b>ANIMAL ID:</b> 1_043	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b>
	<b>DOSE:</b> 400 PPM	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b>
<hr/>			
<b>OBSERVATIONS</b>			
Adrenal gland	Cortex Nos	Clear-Cell Change	
	Medulla	Pheochromocytoma	
Bone	Sternum	Fibrous Osteodystrophy	
Heart		Mineralization	
Kidney	Pelvis	Hyperplasia, Epithelial	
		Nephropathy	
Larynx		Inflammation, Suppurative	
Liver	Bile Duct	Hyperplasia, Nos	
Nasal cavity	Nose Nos	Fibrous Osteodystrophy	
	Nose Nos	Foreign Body, Nos	
	Nose Nos	Hyperplasia, Epithelial	
	Nose Nos	Inflammation, Suppurative	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos	
Preputial gland		Acanthosis	
Skeletal muscle		Mineralization	
Stomach	Forestomach	Acanthosis	
	Glandular Stomach	Erosion	
	Forestomach	Hyperkeratosis	
	Forestomach	Ulcer, Nos	
Testis		Atrophy, Nos	
		Interstitial-Cell Tumor	
<hr/>			
PRIMARY CAUSE OF DEATH	-		
<hr/>			

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_044

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
Bone marrow		Atrophy, Nos
Brain		Atrophy, Nos
		Hemorrhage
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Liver		Clear-Cell Change
		Granuloma, Nos
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Preputial gland		Cyst, Nos
Salivary gland		Dilatation, Ducts
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 1\_045

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_046

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Olfactory Sensory Epithelium	Degeneration, Nos
Epididymis		Mesothelioma, Malignant
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Chronic
		Inflammation, Suppurative
		Metaplasia, Squamous
Liver		Cytoplasmic Change, Basophilic
Lung		Hemorrhage
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Chronic
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
		Inflammation, Chronic
		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Trachea		Inflammation, Chronic
		Metaplasia, Squamous

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_047

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 400 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Hyperplasia, Nos
Bone marrow		Atrophy, Nos
Brain		Atrophy, Nos
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Congenital Malformation, Nos
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Salivary gland		Inflammation, Chronic
Seminal vesicle		Inflammation, Suppurative
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Glandular Stomach	Inflammation, Suppurative
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Necrosis, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_048

**TRT#:** 1  
**DOSE:** 400 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain		Atrophy, Nos
Kidney		Nephropathy
Larynx		Inflammation, Chronic
		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Ectopia
Stomach	Forestomach	Acanthosis
Testis		Atrophy, Nos
Trachea		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_049	TRT#: 1 DOSE: 400 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: HISTO:
<b>OBSERVATIONS</b>			
Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma	
Brain	Olfactory Sensory Epithelium Olfactory Sensory Epithelium	Atrophy, Nos Degeneration, Nos Metaplasia, Nos	
Heart	Myocardium Nos	Degeneration, Nos	
Kidney	Pelvis Pelvis	Hyperplasia, Epithelial Inflammation, Suppurative Nephropathy	
Larynx		Inflammation, Suppurative	
Liver	Bile Duct	Hyperplasia, Nos Hyperplasia, Nos	
Lung	Alveoli	Fibrosis Histiocytosis Hyperplasia, Alveolar Epithelium	
Nasal cavity	Nose Nos Nose Nos Nose Nos	Hyperplasia, Epithelial Inflammation, Suppurative Metaplasia, Squamous	
Parathyroid gland		Hyperplasia, Nos	
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Angiectasis	
Prostate		Inflammation, Suppurative	
Seminal vesicle		Inflammation, Suppurative	
Stomach	Forestomach Glandular Stomach Forestomach Glandular Stomach Forestomach	Acanthosis Erosion Hyperkeratosis Inflammation, Suppurative Ulcer, Nos	
Testis		Atrophy, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_049

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Urinary bladder

Hyperplasia, Epithelial

Inflammation, Suppurative

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 1\_050

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney  
Liver  
  
Lung  
  
Pancreas  
Pituitary gland  
Testis

Cortex Nos  
Mucosa, Rectum  
  
Bile Duct  
Alveoli  
  
Acinus  
Anterior Pituitary

Clear-Cell Change  
Atrophy, Nos  
Nephropathy  
Clear-Cell Change  
Hyperplasia, Nos  
Histiocytosis  
Hyperplasia, Alveolar Epithelium  
Atrophy, Nos  
Hyperplasia, Nos  
Atrophy, Nos  
Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_001

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Rectum

Parasitism

Kidney

Nephropathy

Lung

Alveoli

Inflammation, Suppurative

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

Testis

Atrophy, Nos

Zymbal gland

Interstitial-Cell Tumor

Carcinoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_002

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Medulla

Hyperplasia, Nos

Medulla

Pheochromocytoma

Brain

Atrophy, Nos

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Nos

Metamorphosis, Fatty

Lung

Hemorrhage

Lymph node

Hyperplasia, Lymphoid

Pancreas

Mandibular Lymph Node

Atrophy, Nos

Pituitary gland

Acinus

Adenoma, Nos

Skin

Anterior Pituitary

Keratoacanthoma

Spleen

Fibrosis

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_003

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Brain		Astrocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cyst, Nos
		Inflammation, Suppurative
Skin		Acanthosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_004

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Pancreas

Islets

Islet-Cell Carcinoma

Pituitary gland

Anterior Pituitary

Adenoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_005

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Moribund Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Larynx		Hyperplasia, Epithelial
		Inflammation, Suppurative
Liver	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung	Alveoli	Histiocytosis
	Bronchus	Hyperplasia, Epithelial
	Alveoli	Inflammation, Suppurative
	Bronchiole	Inflammation, Suppurative
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Stomach	Forestomach	Hyperkeratosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Hyperplasia, Epithelial
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_006

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney  
Liver

Cortex Nos  
Myocardium Nos  
Colon

Hyperplasia, Nos  
Degeneration, Nos  
Parasitism  
Nephropathy  
Clear-Cell Change  
Cytoplasmic Change, Basophilic  
Hyperplasia, Nos  
Histiocytosis  
Inflammation, Suppurative  
Atrophy, Nos  
Interstitial-Cell Tumor

Lung  
Preputial gland  
Testis

Bile Duct  
Alveoli

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

---

**ANIMAL ID:** 2\_007

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Pituitary gland

Anterior Pituitary

Adenoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

---

**ANIMAL ID:** 2\_008

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Brain

Granular-Cell Tumor, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Lung

Hemorrhage

Alveoli

Histiocytosis

Alveoli

Inflammation, Suppurative

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_009

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Keratoacanthoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_010

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Pheochromocytoma
Epididymis		Mesothelioma, Malignant
Heart	Atrium	Thrombosis, Nos
Intestine Small	Mesentery Nos	Mesothelioma, Malignant
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_011

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Clear-Cell Change Hyperplasia, Nos Pheochromocytoma
Esophagus		Hyperkeratosis
Heart	Myocardium Nos	Degeneration, Nos Mineralization
Kidney	Pelvis	Hyperplasia, Epithelial Nephropathy
Liver	Bile Duct	Hyperplasia, Nos Necrosis, Nos
Nasal cavity	Nose Nos Nose Nos Nose Nos Nose Nos	Fibrous Osteodystrophy Foreign Body, Nos Hyperplasia, Epithelial Inflammation, Suppurative
Nerve, peripheral	Sciatic Nerve	Mineralization
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cyst, Nos
Skeletal muscle		Mineralization
Stomach	Forestomach Forestomach Glandular Stomach	Acanthosis Hyperkeratosis Mineralization
Testis		Atrophy, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_012

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
	Rectum	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_013

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
	Rectum	Parasitism
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_014

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_015

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney  
Larynx  
Liver

Medulla  
Colon

Bile Duct

Nasal cavity  
Testis

Nose Nos

Unspecified

Multiple Organs Nos

Necrosis, Nos  
Parasitism  
Nephropathy  
Inflammation, Suppurative  
Hyperplasia, Nos  
Necrosis, Nos  
Inflammation, Suppurative  
Atrophy, Nos  
Interstitial-Cell Tumor  
Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_016

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Terminal Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Congenital Malformation, Nos
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung		Hemorrhage
Nasal cavity	Nose Nos	Inflammation, Suppurative
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Basal-Cell Tumor
		Papilloma, Nos
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_017

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
	Medulla	Pheochromocytoma, Malignant
Epididymis		Hyperplasia, Epithelial
Eye	Crystalline Lens	Cataract
	Crystalline Lens	Mineralization
	Sclera	Mineralization
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung		Hemorrhage
	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Carcinoma
Prostate		Hyperplasia, Epithelial
Skin		Sarcoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_018

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Bone marrow		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver	Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Nos Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Adenoma, Nos Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_019

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Pheochromocytoma
Intestine Large	Colon	Parasitism
	Rectum	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Cyst, Nos
Prostate		Hyperplasia, Epithelial
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_020

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Nasal cavity

Nose Nos

Hyperplasia, Epithelial

Nose Nos

Inflammation, Suppurative

Pancreas

Hemorrhage

Preputial gland

Cyst, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_021

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Medulla

Angiectasis

Cortex Nos

Clear-Cell Change

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Nos

Lung

Alveoli

Histiocytosis

Alveoli

Inflammation, Suppurative

Pancreas

Islets

Islet-Cell Adenoma

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

C-Cell Adenoma

Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_022

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Acanthosis
		Inflammation, Suppurative
Liver	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_023

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_024

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Intestine Large	Colon	Parasitism
Kidney	Pelvis	Hyperplasia, Epithelial
	Pelvis	Inflammation, Suppurative
		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Skin		Acanthosis
Spleen		Ectopia
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_025

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Brain		Granular-Cell Tumor, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Congenital Malformation, Nos
		Cytoplasmic Change, Basophilic
		Metamorphosis, Fatty
Lung	Alveoli	Histiocytosis
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Hyperplasia, Nos
		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Skin		Acanthosis
		Inflammation, Suppurative
		Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_026

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Kidney		Nephropathy
Larynx		Foreign Body, Nos Inflammation, Suppurative
Liver	Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Nos Hyperplasia, Nos Necrosis, Nos
Lung	Alveoli	Histiocytosis Hyperplasia, Alveolar Epithelium
Nasal cavity	Alveoli Nose Nos Nose Nos	Inflammation, Suppurative Hyperplasia, Epithelial Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Spleen		Fibrosis
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_027

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Cortex Nos

Clear-Cell Change  
Nephropathy  
Clear-Cell Change

Lung  
Pituitary gland  
Preputial gland  
Testis

Bile Duct

Hyperplasia, Nos

Alveoli

Histiocytosis

Anterior Pituitary

Adenoma, Nos

Thyroid

Cyst, Nos

Unspecified

Multiple Organs Nos

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_028

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain		Oligodendroglioma
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
		Angiectasis
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_029

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Angiectasis
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Skin		Basal-Cell Tumor
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_030

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Inflammation, Suppurative
		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
		Metamorphosis, Fatty
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_031

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Intestine Small	Mesentery Nos	Hemorrhage
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_032

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver  
Nasal cavity  
Pituitary gland  
Preputial gland  
Testis  
  
Thyroid

Medulla  
  
Nose Nos  
Anterior Pituitary

Pheochromocytoma  
Nephropathy  
Cytoplasmic Change, Basophilic  
Inflammation, Suppurative  
Angiectasis  
Adenoma, Nos  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_033

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Cortex Nos

Hyperplasia, Nos

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Clear-Cell Change

Bile Duct

Hyperplasia, Nos

Lung

Alveoli

Inflammation, Suppurative

Salivary gland

Dilatation, Ducts

Stomach

Glandular Stomach

Atrophy, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_034

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Kidney

Medulla

Pheochromocytoma

Lung

Alveoli

Nephropathy

Histiocytosis

Hyperplasia, Alveolar Epithelium

Nasal cavity

Alveoli

Inflammation, Suppurative

Pituitary gland

Nose Nos

Inflammation, Suppurative

Unspecified

Anterior Pituitary

Adenoma, Nos

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_035

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Brain		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Foreign Body, Nos
Liver		Inflammation, Suppurative
		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Carcinoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Cyst, Epidermal Inclusion
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_036

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Lung

Alveoli

Histiocytosis

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_037

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Brain		Glioma, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Granuloma, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_038

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Cortex Nos

Hyperplasia, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Nasal cavity

Nose Nos

Foreign Body, Nos

Nose Nos

Hyperplasia, Epithelial

Nose Nos

Inflammation, Suppurative

Nose Nos

Metaplasia, Squamous

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_039

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Clear-Cell Change
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Lymph node	Mediastinal Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Nose Nos	Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_040

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Pheochromocytoma
Bone	Sternum	Fibrous Osteodystrophy
Brain		Atrophy, Nos
Esophagus		Hyperkeratosis
Eye	Cornea	Inflammation, Chronic
	Cornea	Mineralization
Heart	Myocardium Nos	Degeneration, Nos
		Mineralization
	Atrium	Thrombosis, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
		Mineralization
		Nephropathy
Larynx		Mineralization
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
		Mineralization
Nasal cavity	Nose Nos	Fibrous Osteodystrophy
	Nose Nos	Hyperplasia, Epithelial
Pancreas	Acinus	Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Spleen		Fibrosis
Stomach	Glandular Stomach	Mineralization
Testis		Atrophy, Nos
Urinary bladder		Hyperplasia, Epithelial
		Papilloma, Nos

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_040

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_041

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Nos Hyperplasia, Nos
Brain		Gliosis
Kidney		Nephropathy
Larynx		Acanthosis Hyperplasia, Epithelial Inflammation, Chronic Inflammation, Suppurative
Liver	Bile Duct	Clear-Cell Change Hyperplasia, Nos Metamorphosis, Fatty
Lung	Alveoli	Hemorrhage Histiocytosis Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary Anterior Pituitary	Angiectasis Hyperplasia, Nos
Stomach	Forestomach	Acanthosis
Testis		Atrophy, Nos Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_042

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombosis, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung	Alveoli	Histiocytosis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Angiectasis
Preputial gland		Cyst, Nos
Spleen		Fibrosis
Testis		Atrophy, Nos
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_043

**TRT#:** 2  
**DOSE:** 100 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Bone marrow		Atrophy, Nos
Kidney		Nephropathy
Larynx		Foreign Body, Nos
Liver	Bile Duct	Inflammation, Suppurative Hyperplasia, Nos
Lung	Alveoli	Hemorrhage Histiocytosis
Nasal cavity	Alveoli Nose Nos Nose Nos	Inflammation, Suppurative Hyperplasia, Epithelial Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Angiectasis
Testis		Atrophy, Nos Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_044

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Acanthosis
		Inflammation, Suppurative
Skin		Cyst, Epidermal Inclusion
		Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_045

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Brain		Atrophy, Nos
		Granular-Cell Tumor, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Hyperplasia, Epithelial
		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Hyperplasia, Nos
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_046

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Kidney  
Larynx  
Liver

Medulla

Hyperplasia, Nos  
Nephropathy  
Acanthosis  
Clear-Cell Change  
Cytoplasmic Change, Basophilic

Nasal cavity  
Pancreas  
Seminal vesicle  
Testis

Bile Duct

Nose Nos

Acinus

Hyperplasia, Nos  
Inflammation, Suppurative  
Atrophy, Nos  
Inflammation, Suppurative  
Atrophy, Nos  
Interstitial-Cell Tumor  
Mesothelioma, Malignant

Unspecified

Multiple Organs Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_047

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney	Pelvis	Hyperplasia, Epithelial
		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Acanthosis
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_048

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Multiple Organs Nos	Mesothelioma, Malignant

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 2\_049

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Salivary gland		Carcinoma, Nos, Metastatic
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thymus		Cyst, Nos
Zymbal gland		Carcinoma, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_050

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 100 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Bone	Sternum	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
		Mineralization
Kidney		Mineralization
		Nephropathy
		Tubular-Cell Adenoma
Larynx		Acanthosis
		Inflammation, Suppurative
Liver		Clear-Cell Change
Lung	Alveoli	Fibrosis
		Hemorrhage
	Alveoli	Histiocytosis
		Mineralization
Mammary gland		Fibroadenoma
Nasal cavity	Nose Nos	Fibrous Osteodystrophy
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
	Islets	Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Acanthosis
		Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Stomach	Forestomach	Acanthosis
	Glandular Stomach	Mineralization
Testis		Atrophy, Nos

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 2\_050

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 100 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_001

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Brain	Olfactory Sensory Epithelium	Metaplasia, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Angiectasis
		Hyperplasia, Nos
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Angiectasis
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Stomach	Glandular Stomach	Atrophy, Nos
	Forestomach	Squamous Cell Carcinoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_002

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Skin		Trichoepithelioma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_003

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_004

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Liver		Metamorphosis, Fatty
Lung	Alveoli	Histiocytosis
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Seminal vesicle		Hyperplasia, Nos
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Glandular Stomach	Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_005

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Acanthosis
		Hyperplasia, Nos
Skin		Acanthosis
		Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_006

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Lung

Alveoli

Histiocytosis

Alveoli

Inflammation, Suppurative

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Preputial gland

Acanthosis

Inflammation, Suppurative

Skin

Ulcer, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_007

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
	Cortex Nos	Hyperplasia, Nos
Bone marrow		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Preputial gland		Acanthosis
		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_008

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart		Hemangiosarcoma
Kidney		Mineralization
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung		Hemorrhage
Preputial gland		Cyst, Nos
Testis		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_009

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Brain		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Acanthosis Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Spleen		Fibrosis
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_010

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Nos Pheochromocytoma
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Nasal cavity	Bile Duct Nose Nos Nose Nos Nose Nos	Hyperplasia, Nos Foreign Body, Nos Hyperplasia, Epithelial Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Skin		Fibroma
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_011

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Nos

Mammary gland

Fibroadenoma

Nasal cavity

Inflammation, Suppurative

Pancreas

Nose Nos

Atrophy, Nos

Pituitary gland

Acinus

Adenoma, Nos

Salivary gland

Anterior Pituitary

Dilatation, Ducts

Inflammation, Suppurative

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_012

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Brain		Atrophy, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Atrophy, Nos Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_013

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic Hyperplasia, Nos
Lung	Bile Duct	Alveolar/Bronchiolar Adenoma
Nasal cavity	Alveoli	Histiocytosis
Pancreas	Nose Nos	Inflammation, Suppurative
Pituitary gland	Acinus	Atrophy, Nos
Salivary gland	Anterior Pituitary	Adenoma, Nos
Seminal vesicle		Inflammation, Suppurative
Testis		Inflammation, Suppurative Atrophy, Nos Interstitial-Cell Tumor Necrosis, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_014

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Medulla	Clear-Cell Change Hyperplasia, Nos Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial Nephropathy
Larynx		Foreign Body, Nos Inflammation, Suppurative
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic Granuloma, Nos
	Bile Duct	Hyperplasia, Nos Hyperplasia, Nos
Nasal cavity	Nose Nos Nose Nos	Hyperplasia, Epithelial Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Dilatation, Ducts
Skin		Keratoacanthoma
Spleen		Fibrosis
Testis		Atrophy, Nos
Unspecified	Multiple Organs Nos	Interstitial-Cell Tumor
Urinary bladder		Leukemia, Mononuclear Cell Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_015

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Cecum, Colon	Hemorrhage
Kidney		Nephropathy
Larynx		Foreign Body, Nos
Liver		Inflammation, Suppurative
Lung	Alveoli	Congenital Malformation, Nos
Nasal cavity	Nose Nos	Cytoplasmic Change, Basophilic
Preputial gland		Histiocytosis
Seminal vesicle		Hyperplasia, Alveolar Epithelium
Skin		Inflammation, Suppurative
Spleen		Adenoma, Nos
Testis		Inflammation, Suppurative
		Hyperplasia, Nos
		Acanthosis
		Ulcer, Nos
		Fibrosis
		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_016

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Congenital Malformation, Nos
		Metamorphosis, Fatty
Lung	Alveoli	Histiocytosis
	Bronchus	Hyperplasia, Epithelial
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Oral mucosa	Palate Nos	Hemangiosarcoma
Salivary gland		Dilatation, Ducts
		Inflammation, Chronic
Seminal vesicle		Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified		Adenocarcinoma, Nos
	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_017

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Nos Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Capsule	Hemorrhage Nephropathy
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic Hyperplasia, Nos
Lung	Bile Duct	Histiocytosis
Pancreas	Alveoli	Atrophy, Nos
Pituitary gland	Acinus	Adenoma, Nos
Stomach	Anterior Pituitary	Congenital Malformation, Nos
Testis	Forestomach	Atrophy, Nos Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_018

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Eye	Sclera	Mineralization
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
		Necrosis, Nos
Lung		Hemorrhage
	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_019

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Liver		Clear-Cell Change
		Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Carcinoma
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Angiectasis
Seminal vesicle		Inflammation, Suppurative
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Forestomach	Ulcer, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_020

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 200 PPM

DISP: Moribund Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain	Olfactory Sensory Epithelium	Metaplasia, Nos
Kidney		Nephropathy
Larynx		Hyperplasia, Epithelial
		Inflammation, Suppurative
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
Preputial gland		Acanthosis
		Cyst, Nos
		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Spleen		Fibrosis
		Necrosis, Nos
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_021

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Granular-Cell Tumor, Nos
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Preputial gland		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_022

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Brain	Olfactory Sensory Epithelium	Metaplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Cytoplasmic Change, Basophilic
		Hyperplasia, Nos
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_023

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 200 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
	Medulla	Hyperplasia, Nos
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney	Pelvis	Hyperplasia, Epithelial
		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Acanthosis
		Hyperplasia, Nos
		Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Seminal vesicle		Hyperplasia, Nos
Skin		Acanthosis
		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_024

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney  
Liver

Medulla  
Myocardium Nos  
Rectum

Bile Duct

Lung  
Nasal cavity  
Pancreas  
Pituitary gland  
Seminal vesicle  
Testis

Alveoli  
Nose Nos  
Islets  
Anterior Pituitary

Thyroid  
Unspecified

Multiple Organs Nos

Pheochromocytoma  
Degeneration, Nos  
Parasitism  
Nephropathy  
Clear-Cell Change  
Cytoplasmic Change, Basophilic  
Hyperplasia, Nos  
Hyperplasia, Nos  
Histiocytosis  
Inflammation, Suppurative  
Hyperplasia, Nos  
Adenoma, Nos  
Inflammation, Suppurative  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, C Cell  
Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_025

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 200 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
	Olfactory Sensory Epithelium	Metaplasia, Nos
Intestine Large	Mucosa, Rectum	Atrophy, Nos
	Colon	Parasitism
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Acanthosis
		Cyst, Nos
		Hyperplasia, Nos
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_026

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos Nephropathy
Kidney		Clear-Cell Change Cytoplasmic Change, Basophilic
Liver	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Prostate		Hyperplasia, Epithelial
Seminal vesicle		Inflammation, Suppurative
Skin		Fibroma
Stomach	Glandular Stomach	Mineralization
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_027

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic
Lung	Alveoli	Histiocytosis
Preputial gland		Acanthosis
Testis		Atrophy, Nos Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_028

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Spleen		Fibrosis
Testis		Atrophy, Nos Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_029

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_030

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Kidney		Nephropathy
Larynx		Hyperplasia, Epithelial
		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_031

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney  
Liver

Medulla  
Colon

Pheochromocytoma  
Parasitism  
Nephropathy  
Clear-Cell Change  
Cytoplasmic Change, Basophilic  
Inflammation, Suppurative  
Islet-Cell Adenoma  
Hyperplasia, Nos  
Inflammation, Suppurative  
Cyst, Epidermal Inclusion  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, C Cell  
Leukemia, Mononuclear Cell

Lung  
Pancreas  
Pituitary gland  
Seminal vesicle  
Skin  
Testis

Alveoli  
Islets  
Anterior Pituitary

Thyroid  
Unspecified

Multiple Organs Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_032

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Bone marrow

Kidney

Liver

Lung

Nasal cavity

Pancreas

Skin

Testis

Bile Duct

Alveoli

Nose Nos

Acinus

Cortical Adenoma

Atrophy, Nos

Nephropathy

Clear-Cell Change

Cytoplasmic Change, Basophilic

Hyperplasia, Nos

Histiocytosis

Inflammation, Suppurative

Atrophy, Nos

Papilloma, Nos

Atrophy, Nos

Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_033

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Nos

Lung

Alveoli

Histiocytosis

Pancreas

Acinus

Atrophy, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_034

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Pelvis	Inflammation, Suppurative
		Nephropathy
Larynx		Foreign Body, Nos
		Hyperplasia, Epithelial
Liver		Clear-Cell Change
Lung	Alveoli	Histiocytosis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Acanthosis
Skin		Acanthosis
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Urinary bladder		Hyperplasia, Epithelial
		Inflammation, Suppurative

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_035

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
	Cortex Nos	Hyperplasia, Nos
Intestine Large	Rectum	Parasitism
Kidney		Nephropathy
Larynx		Hyperplasia, Epithelial
		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Seminal vesicle		Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_036

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Mammary gland

Fibroadenoma

Seminal vesicle

Inflammation, Suppurative

Testis

Atrophy, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_037

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 200 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
	Medulla	Pheochromocytoma, Malignant
Brain	Olfactory Sensory Epithelium	Metaplasia, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
Lung		Hemorrhage
	Alveoli	Histiocytosis
		Pheochromocytoma, Metastatic
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Dilatation, Ducts
		Inflammation, Chronic
Seminal vesicle		Inflammation, Suppurative
Skin		Fibroma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_038

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Pheochromocytoma
Brain		Atrophy, Nos
Intestine Small	Mesentery Nos	Hemorrhage
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Dilatation, Ducts Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

---

**ANIMAL ID:** 3\_039

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Pancreas

Testis

Myocardium Nos

Acinus

Neoplasm, Nos

Degeneration, Nos

Atrophy, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_040

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
Lung		Alveolar/Bronchiolar Carcinoma
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_041

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Brain	Olfactory Sensory Epithelium	Metaplasia, Nos
Intestine Large	Colon	Parasitism
Kidney		Cyst, Nos
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Carcinoma
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:19  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_042

**TRT#:** 3  
**DOSE:** 200 PPM

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

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

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
	Pleura Nos	Mesothelioma, Malignant
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Spleen		Ectopia
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Cyst, Ultimobranchial

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_043

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Atrophy, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_044

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Hemorrhage
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Islets	Islet-Cell Adenoma
Spinal cord		Hemorrhage
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_045

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_046

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma, Malignant
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Lymph node	Mediastinal Lymph Node	Pheochromocytoma, Metastatic
Nasal cavity	Nose Nos	Pheochromocytoma, Metastatic
Pituitary gland	Anterior Pituitary	Inflammation, Suppurative
Preputial gland		Hyperplasia, Nos
		Acanthosis
		Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Testis		Inflammation, Suppurative
		Atrophy, Nos
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell
		Periarteritis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_047

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Atrophy, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Angiectasis
Prostate		Hyperplasia, Epithelial

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

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**ANIMAL ID:** 3\_048

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Medulla

Pheochromocytoma

Intestine Large

Myocardium Nos

Degeneration, Nos

Kidney

Rectum

Parasitism

Liver

Bile Duct

Nephropathy

Nasal cavity

Nose Nos

Hyperplasia, Nos

Parathyroid gland

Inflammation, Suppurative

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Adenoma, Nos

Adenoma, Nos

Testis

Inflammation, Suppurative

Atrophy, Nos

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:19

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_049

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 200 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
	Olfactory Sensory Epithelium	Metaplasia, Nos
Epididymis		Mesothelioma, Malignant
Heart	Atrium	Thrombosis, Nos
Intestine Small	Mesentery Nos	Mesothelioma, Malignant
Kidney		Nephropathy
Liver		Necrosis, Nos
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:19

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

**Lab:** NA

**ANIMAL ID:** 3\_050

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Atrophy, Nos
Brain		Atrophy, Nos
	Meninges	Hyperplasia, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Angiectasis
Prostate		Hyperplasia, Epithelial
Seminal vesicle		Hyperplasia, Nos
Skin		Papilloma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**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**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Intermedia	Adenoma, Nos
Salivary gland		Dilatation, Ducts
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:20

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4\_002

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Clear-Cell Change
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Foreign Body, Nos
		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung		Hemorrhage
	Alveoli	Histiocytosis
	Pleura Nos	Hyperplasia, Mesothelial
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Preputial gland		Inflammation, Suppurative
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Cyst, Ultimobranchial
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_003

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Atrophy, Nos
Brain		Atrophy, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
	Islets	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_004

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Medulla

Hyperplasia, Nos

Brain

Hemorrhage

Intestine Large

Colon

Parasitism

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Lung

Hyperplasia, Alveolar Epithelium

Preputial gland

Cyst, Nos

Inflammation, Suppurative

Prostate

Inflammation, Suppurative

Seminal vesicle

Inflammation, Suppurative

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_005

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Lung

Hemorrhage

Alveoli

Histiocytosis

Alveoli

Inflammation, Suppurative

Preputial gland

Adenoma, Nos

Skin

Acanthosis

Ulcer, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_006

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain		Atrophy, Nos
Kidney		Nephropathy
Liver		Metamorphosis, Fatty
Pancreas	Islets	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_007

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Hemorrhage
Epididymis		Hemorrhage
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:20

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4\_008

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
Bone marrow		Atrophy, Nos
Brain		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney	Interstitialium	Metamorphosis, Fatty
		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Metamorphosis, Fatty
Lung		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Inflammation, Suppurative
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Acanthosis
	Glandular Stomach	Erosion
	Forestomach	Hyperkeratosis
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_009

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Brain		Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Adenoma, Nos
Seminal vesicle		Hyperplasia, Nos
Skin		Ulcer, Nos
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_010

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Nos

Heart

Medulla

Pheochromocytoma

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Cytoplasmic Change, Basophilic

Pancreas

Bile Duct

Hyperplasia, Nos

Pituitary gland

Acinus

Atrophy, Nos

Testis

Anterior Pituitary

Adenoma, Nos

Atrophy, Nos

Trachea

Interstitial-Cell Tumor

Inflammation, Suppurative

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_011

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Brain	Olfactory Sensory Epithelium	Degeneration, Nos Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic Granuloma, Nos
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Salivary gland		Dilatation, Ducts Inflammation, Suppurative
Skin		Lipoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_012

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Periarteritis
Kidney		Nephropathy
Preputial gland		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Periarteritis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_013

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Mesothelioma, Malignant
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Necrosis, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Seminal vesicle		Hyperplasia, Nos
Skin		Fibroma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_015

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
	Cortex Nos	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Duodenum	Neurilemoma, Malignant
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Preputial gland		Hyperplasia, Nos
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Seminal vesicle		Hyperplasia, Nos
Skin		Neurilemoma, Malignant
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_016

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Bone	Vertebra	Chordoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung		Chordoma, Metastatic
Preputial gland		Adenoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Urinary bladder		Hemorrhage

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:20

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4\_017

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Hemorrhage
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Angiectasis
	Anterior Pituitary	Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_018

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Large

Colon

Parasitism

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Lung

Alveoli

Histiocytosis

Metaplasia, Osseous

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Angiectasis

Anterior Pituitary

Hyperplasia, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_019

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Foreign Body, Nos
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_020

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Pituitary gland  
Testis

Cortex Nos  
Colon  
Anterior Pituitary

Hyperplasia, Focal  
Parasitism  
Necrosis, Nos  
Atrophy, Nos  
Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_021

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Chronic
	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Angiectasis
Prostate		Hyperplasia, Epithelial
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_022

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Multiple Organs Nos	Mesothelioma, Malignant

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_023

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Liver

Medulla  
Myocardium Nos

Pheochromocytoma  
Degeneration, Nos  
Nephropathy  
Clear-Cell Change  
Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Nos  
Hyperplasia, Nos

Lung  
Nasal cavity  
Pituitary gland  
Preputial gland  
Prostate  
Seminal vesicle  
Spleen  
Testis

Alveoli  
Nose Nos  
Anterior Pituitary

Histiocytosis  
Inflammation, Suppurative  
Hyperplasia, Nos  
Inflammation, Suppurative  
Inflammation, Suppurative  
Inflammation, Suppurative

Unspecified

Multiple Organs Nos  
Multiple Organs Nos

Fibrosis  
Atrophy, Nos  
Interstitial-Cell Tumor  
Leukemia, Mononuclear Cell  
Periarteritis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_024

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Inflammation, Chronic
Preputial gland		Inflammation, Suppurative
Stomach	Forestomach	Acanthosis
	Glandular Stomach	Erosion
	Glandular Stomach	Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_025

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Bone marrow		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Necrosis, Nos
Lung	Alveoli	Edema, Nos
		Fibrosis
		Hemorrhage
	Alveoli	Histiocytosis
	Alveoli	Inflammation, Suppurative
	Bronchiole	Inflammation, Suppurative
Nasal cavity	Nose Nos	Hemorrhage
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Stomach	Forestomach	Acanthosis
	Glandular Stomach	Erosion
	Glandular Stomach	Inflammation, Suppurative
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:20

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4\_026

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Medulla	Angiectasis
Brain		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Angiectasis
	Anterior Pituitary	Necrosis, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Hyperplasia, Nos
		Inflammation, Suppurative
Skin		Fibrosis
		Sebaceous Adenoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Periarteritis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_027

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_028

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos Hyperplasia, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Salivary gland		Dilatation, Ducts Inflammation, Suppurative
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Cyst, Ultimobranchial
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

---

**ANIMAL ID:** 4\_029

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Kidney

Medulla

Hyperplasia, Nos

Liver

Nephropathy

Clear-Cell Change

Bile Duct

Hyperplasia, Nos

Nasal cavity

Nose Nos

Metamorphosis, Fatty

Pituitary gland

Anterior Pituitary

Hyperplasia, Epithelial

Spleen

Adenoma, Nos

Stomach

Forestomach

Necrosis, Nos

Testis

Acanthosis

Atrophy, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_030

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Pituitary gland

Preputial gland

Thyroid

Anterior Pituitary

Nephropathy

Adenoma, Nos

Acanthosis

Adenoma, Nos

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_031

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_032

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney	Capsule	Hemorrhage
Liver		Carcinoma, Nos, Metastatic
Lung		Carcinoma, Nos, Metastatic
Lymph node	Mandibular Lymph Node	Carcinoma, Nos, Metastatic
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Testis		Atrophy, Nos
Zymbal gland		Carcinoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_033

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney  
Lung  
Lymph node  
Pancreas  
Testis

Medulla  
Myocardium Nos  
Colon  
  
Bronchial Lymph Node  
Acinus

Pheochromocytoma  
Degeneration, Nos  
Parasitism  
Nephropathy  
Hemangiosarcoma  
Hemorrhage  
Atrophy, Nos  
Atrophy, Nos  
Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_034

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Nephropathy

Nasal cavity

Nose Nos

Foreign Body, Nos

Nose Nos

Inflammation, Suppurative

Trachea

Inflammation, Suppurative

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_035

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Brain

Cortex Nos

Clear-Cell Change

Atrophy, Nos

Atrophy, Nos

Olfactory Sensory Epithelium

Degeneration, Nos

Hemorrhage

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Lung

Alveoli

Histiocytosis

Nasal cavity

Nose Nos

Hyperplasia, Epithelial

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Salivary gland

Inflammation, Suppurative

Seminal vesicle

Hyperplasia, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**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**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Chronic
Preputial gland		Acanthosis
Prostate		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Periarteritis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**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:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Bone	Sternum	Fibrous Osteodystrophy
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Thrombosis, Nos
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Metaplasia, Squamous
Pancreas	Acinus	Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Necrosis, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_038

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone	Sternum	Fibrous Osteodystrophy
Epididymis		Mesothelioma, Malignant
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Mesothelioma, Malignant
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
Lung	Alveoli	Histiocytosis
Lymph node	Bronchial Lymph Node	Pigmentation, Nos
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_039

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone	Sternum	Fibrous Osteodystrophy
Heart	Atrium	Thrombosis, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
Preputial gland		Adenoma, Nos
		Cyst, Nos
		Inflammation, Suppurative
Skin		Acanthosis
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:20

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4\_040

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain		Atrophy, Nos
Esophagus		Hyperkeratosis
Intestine Small	Duodenum	Inflammation, Suppurative
	Duodenum	Necrosis, Nos
	Mesentery Nos	Periarteritis
Kidney		Nephropathy
Liver		Metamorphosis, Fatty
Lung		Hemorrhage
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cyst, Nos
		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
	Glandular Stomach	Inflammation, Suppurative
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Periarteritis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55481

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:16:20

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4\_041

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Clear-Cell Change
Kidney	Pelvis	Hyperplasia, Epithelial
	Pelvis	Inflammation, Suppurative
		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung	Alveoli	Histiocytosis
Nasal cavity	Nose Nos	Hemorrhage
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
	Nose Nos	Thrombosis, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Necrosis, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hyperplasia, Epithelial
		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_042

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Brain		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
		Metamorphosis, Fatty
Mammary gland		Adenocarcinoma, Nos
Nasal cavity	Nose Nos	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cyst, Nos
Prostate		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
Seminal vesicle		Inflammation, Suppurative
Spleen		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Suppurative
Urinary bladder		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_043

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Salivary gland		Dilatation, Ducts
		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Skin		Keratoacanthoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Periarteritis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

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**ANIMAL ID:** 4\_044

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Brain		Hemorrhage
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**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:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Brain	Olfactory Sensory Epithelium	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
		Granuloma, Nos
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Inflammation, Suppurative
Nasal cavity	Nose Nos	Foreign Body, Nos
	Nose Nos	Hyperplasia, Epithelial
	Nose Nos	Inflammation, Suppurative
	Nose Nos	Metaplasia, Squamous
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Acanthosis
Seminal vesicle		Inflammation, Suppurative
Skin		Squamous Cell Carcinoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_046

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Clear-Cell Change
Bone	Rib	Adenosquamous Carcinoma, Metastatic
Bone marrow		Atrophy, Nos
Esophagus		Hyperkeratosis
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Adenosquamous Carcinoma
Lymph node	Bronchial Lymph Node	Adenosquamous Carcinoma, Metastatic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Diaphragm Nos	Adenosquamous Carcinoma, Metastatic
Urinary bladder		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_047

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Clear-Cell Change Hyperplasia, Nos Necrosis, Nos Nephropathy
Brain		Clear-Cell Change
Kidney		Hyperplasia, Nos
Liver	Bile Duct	Hyperplasia, Nos
		Histiocytosis
Lung	Alveoli	Atrophy, Nos
Pancreas	Acinus	Fibrosis
Spleen		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_048

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Medulla	Clear-Cell Change Hyperplasia, Nos Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos Necrosis, Nos
Nasal cavity	Nose Nos Nose Nos	Fibrous Osteodystrophy Inflammation, Suppurative
Pancreas	Islets	Islet-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Suppurative
Stomach	Glandular Stomach	Mineralization
Testis		Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Bromoethane (ethyl bromide)

**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:16:20

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

**Lab:** NA

**ANIMAL ID:** 4\_049

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Clear-Cell Change

Kidney

Cortical Adenoma

Larynx

Nephropathy

Liver

Inflammation, Suppurative

Cytoplasmic Change, Basophilic

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos

Nasal cavity

Nose Nos

Hyperplasia, Epithelial

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

Seminal vesicle

Hyperplasia, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Thyroid

Mesothelioma, Malignant

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55481  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Bromoethane (ethyl bromide)  
**CAS Number:** 74-96-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:16:20  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_050

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Brain		Atrophy, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Nasal cavity	Nose Nos	Hyperplasia, Epithelial
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Acanthosis
	Glandular Stomach	Inflammation, Suppurative
Testis		Atrophy, Nos
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

**\*\* END OF REPORT \*\***