

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

C Number: C56519

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:02
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_051

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lung		Histiocytosis
		Pneumonia, Interstitial Chronic
Mammary gland		Cyst, Multiple
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Seminal vesicle		Hemorrhage
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urethra		Calculus, Microscopic Examination
Urinary bladder		Inflammation, Hemorrhagic

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_052

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
	Acinus	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_053

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
	Tubule	Nephropathy
		Pigmentation, Nos
Liver	Bile Duct	Tubular-Cell Adenoma
	Periportal	Hyperplasia, Nos
		Inflammation, Chronic
Lung		Pneumonia, Interstitial Chronic
Pancreas		Acinar-Cell Adenoma
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization
		Cystic Follicles
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_054

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_055

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Edema, Nos
Mammary gland		Cyst, Multiple
Pancreas		Acinar-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
		Periarteritis
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_056

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Mucinous Adenocarcinoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Adenoma, Nos
		Inflammation, Chronic
Salivary gland		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Cystic Follicles
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_057

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Lymphocytic Inflammatory Infiltrate
Spleen		Pigmentation, Nos
Stomach	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_058

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Cortex	Cyst, Nos
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Pancreas		Periarteritis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Salivary gland		Atrophy, Nos
Seminal vesicle		Atrophy, Nos
Spleen		Atrophy, Nos
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_059

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma
Heart		Inflammation, Chronic
Intestine Small	Mesentery Nos	Periarteritis
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pancreas	Acinus Acinus	Atrophy, Nos Hyperplasia, Nos
		Periarteritis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Skin	Tail	Keratoacanthoma
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_060

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Cortex Nos	Metamorphosis, Fatty
Brain		Compression, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Metamorphosis, Fatty
Nasal cavity	Turbinates Nos	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Salivary gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Ulcer, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Pigmentation, Nos

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_061

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye	Nasolacrimal Duct	Inflammation, Acute
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Metamorphosis, Fatty
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen		Hematopoiesis
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_062

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Angiectasis
	Bile Duct	Focal Cellular Change
	Periportal	Hyperplasia, Nos
		Inflammation, Chronic
		Mixed Hepato/Cholangio Carcinoma
Lung		Hemorrhage
Nasal cavity		Hemorrhage
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Abdomen	Fibrous Histiocytoma, Malignant

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:02
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_063

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma, Malignant
Heart		Inflammation, Chronic
		Pheochromocytoma, Metastatic
Intestine Small	Mesentery Nos	Pheochromocytoma, Invasive
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Pheochromocytoma, Metastatic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization
		Pheochromocytoma, Metastatic
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified	Scrotum	Fibroma

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_064

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Vein Nos	Mineralization
Bone marrow		Fibrosis
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_065

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Metamorphosis, Fatty
Nasal cavity	Turbinate Nos	Inflammation, Chronic
Preputial gland		Adenoma, Nos
		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_066

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Spleen		Fibrosis
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
	Scrotum Nos	Steatitis
Thyroid		Cystic Follicles
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_067

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Active Chronic
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Skin	Tail	Squamous Cell Papilloma
Spleen		Atrophy, Nos
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_068

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Cyst, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid	Follicle	Atrophy, Nos
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_069

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Cytoplasmic Vacuolization Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization Hyperplasia, C Cell
Thyroid		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_070

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Metamorphosis, Fatty
Lung		Histiocytosis
		Hyperplasia, Alveolar Epithelium
		Pneumonia, Interstitial Chronic
Mammary gland		Hyperplasia, Cystic
Nasal cavity	Turbinates Nos	Inflammation, Chronic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Hyperplasia, Nos
		Inflammation, Active Chronic
Seminal vesicle		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Scrotum Nos	Steatitis
Thymus		Hemosiderosis
Thyroid		Cystic Follicles
		Pigmentation, Nos
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_071

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Hyperplasia, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_072

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Histiocytosis
		Pneumonia, Interstitial Chronic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Active Chronic
Prostate		Inflammation, Active Chronic
Spleen		Fibrosis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_073

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
Liver	Tubule Bile Duct Periportal	Pigmentation, Nos Hyperplasia, Nos Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus Islets	Atrophy, Nos Hyperplasia, Nos
Preputial gland		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland Forestomach Forestomach Forestomach Forestomach	Dilatation, Nos Hyperkeratosis Hyperplasia, Epithelial Inflammation, Active Chronic Ulcer, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization
Urethra		Hyperplasia, C Cell Calculus, Microscopic Examination

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:02
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_074

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Dosing Accident

DAY ON TEST:
HISTO:

OBSERVATIONS

Brain		Astrocytoma
Epididymis		Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
		Hemorrhage
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_075

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart		Inflammation, Chronic
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Focal Cellular Change
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Spleen		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:02
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_076

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Histiocytosis
Preputial gland		Inflammation, Chronic
Spleen		Pigmentation, Nos
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_077

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Metamorphosis, Fatty Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
Liver	Tubule Bile Duct Periportal	Pigmentation, Nos Hyperplasia, Nos Inflammation, Chronic Neoplastic Nodule
Pancreas	Acinus	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Spleen		Fibrosis Hematopoiesis Pigmentation, Nos
Stomach	Forestomach Forestomach Forestomach	Hyperkeratosis Hyperplasia, Epithelial Inflammation, Chronic
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:02
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_078

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Pelvis	Calculus, Microscopic Examination Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Seminal vesicle		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:02
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_079

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Accessory Structure Hyperplasia, Nos Inflammation, Chronic Nephropathy
Heart		Pigmentation, Nos
Kidney	Tubule	Hyperplasia, Nos Inflammation, Chronic
Liver	Bile Duct Periportal Acinus	Atrophy, Nos Fibrosis Hematopoiesis Pigmentation, Nos
Pancreas		Dilatation, Nos
Spleen		Hyperplasia, Epithelial Inflammation, Chronic
Stomach	Fundal Gland Forestomach Forestomach	Atrophy, Nos Interstitial-Cell Tumor
Testis		Mineralization
Thyroid	Tubule	Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:02
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_080

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
	Acinus	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_081

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
Lung		Hemorrhage
		Mineralization
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_082

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Malacia
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
	Periportal	Metamorphosis, Fatty
Nasal cavity	Turbinates Nos	Inflammation, Chronic
Pancreas		Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified		Fibroma
	Multiple Organs Nos	Periarteritis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_083

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Carcinoma, Nos
		Inflammation, Chronic
Prostate		Inflammation, Chronic
Salivary gland		Atrophy, Nos
Spleen		Fibrosis
		Hematopoiesis
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:02
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_084

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Cortical Adenoma
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_085

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Accessory Structure Degeneration, Lipoid Pheochromocytoma, Malignant
Heart		Inflammation, Chronic
Kidney	Cortex Tubule Tubule Tubule	Cyst, Nos Hyperplasia, Focal Inflammation, Acute Mineralization Nephropathy
Liver	Tubule Bile Duct Periportal	Pigmentation, Nos Focal Cellular Change Hyperplasia, Nos Inflammation, Chronic
Pancreas	Acinus Acinus	Atrophy, Nos Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_086

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Pelvis	Hyperplasia, Epithelial
	Tubule	Mineralization
		Nephropathy
Liver	Tubule	Pigmentation, Nos
		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Mammary gland		Cyst, Nos
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Adenoma, Nos
		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization
		Cystic Follicles
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:02

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_087

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Bronchopneumonia, Chronic Hemorrhage
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
	Forestomach	Inflammation, Chronic
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_088

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
Liver	Centrilobular Bile Duct	Cytoplasmic Vacuolization Hyperplasia, Nos
Lung		Hemorrhage
Mammary gland		Cyst, Nos
Pituitary gland	Intermedia Anterior Pituitary Anterior Pituitary	Cyst, Nos Hemorrhage Hyperplasia, Nos
Spleen		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_089

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Nos
Pancreas	Acinus	Atrophy, Nos
	Acinus	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Salivary gland		Atrophy, Nos
Skin	Back	Mineralization
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tunica Albuginea	Mesothelioma, Nos C-Cell Adenoma
Thyroid		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_090

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Fibrosis
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Pelvis	Calculus, Microscopic Examination
	Pelvis	Hemorrhage
		Nephropathy
Liver	Tubule	Pigmentation, Nos
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Seminal vesicle		Atrophy, Nos
Skin	Tail	Squamous Cell Papilloma
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_091

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Hyperplasia, Focal
	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Spleen		Fibrosis
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Cyst, Embryonal Duct
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_092

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Hemorrhage
Pancreas		Periarteritis
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_093

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Accessory Structure Degeneration, Lipoid Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Nasolacrimal Duct	Inflammation, Acute
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Hematopoiesis
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin	Shoulder	Squamous Cell Carcinoma
Spleen		Fibrosis Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_094

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Hematopoiesis
Pancreas	Acinus	Focal Cellular Change
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Preputial gland		Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Hyperplasia, Lymphoid
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_095

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Nos
		Pneumonia, Interstitial Chronic
Lung		Cyst, Multiple
Mammary gland		Focal Cellular Change
Pancreas	Acinus	Hyperplasia, Nos
	Acinus	Periarteritis
		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Prostate		Atrophy, Nos
Seminal vesicle		Hematopoiesis
Spleen		Pigmentation, Nos
		Hyperkeratosis
Stomach	Forestomach	Inflammation, Active Chronic
	Forestomach	Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
		Mineralization
Thyroid	Tubule	Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_096

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Pelvis	Transitional-Cell Papilloma
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Lymph node	Mesenteric Lymph Node	Congestion, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis Hyperplasia, Lymphoid
		Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Shoulder	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_097

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Pelvis	Inflammation, Acute
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Inflammation, Active Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_098

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Bronchopneumonia, Chronic
Nasal cavity		Hemorrhage
Pancreas	Islets	Islet-Cell Adenoma
		Periarteritis
Pituitary gland	Anterior Pituitary	Cyst, Nos
Preputial gland		Inflammation, Suppurative
Prostate		Inflammation, Active Chronic
Spleen		Atrophy, Nos
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_099

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 750.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Hyperplasia, Focal
	Tubule	Inflammation, Acute
	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Nasal cavity		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Trunk	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_100

TRT#: 1
DOSE: 750.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Cortex Nos	Mineralization
Brain		Oligodendroglioma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Lung		Hemorrhage
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Hyperplasia, Lymphoid
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
	Colloid	Mineralization
Urinary bladder		Calculus, Gross Observation Only

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Nos Hyperplasia, Nos
Ear	Canal	Inflammation, Active Chronic
Eye	Crystalline Lens Cornea	Cataract Inflammation, Active Chronic Inflammation, Suppurative Retinopathy
Heart		Inflammation, Chronic
Kidney	Tubule Tubule Pelvis	Mineralization Nephropathy Pigmentation, Nos Transitional-Cell Papilloma
Liver	Bile Duct Periportal	Hyperplasia, Nos Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Suppurative
Salivary gland		Atrophy, Nos
Skin	Tail	Keratoacanthoma
Spleen		Hematopoiesis
Stomach	Fundal Gland Forestomach Forestomach	Dilatation, Nos Hyperkeratosis Hyperplasia, Epithelial
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization
Zymbal gland		Hyperplasia, C Cell Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Intestine Small	Duodenum	Leiomyosarcoma
Kidney	Tubule	Mineralization
		Nephropathy
Liver	Tubule	Pigmentation, Nos
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Pancreas	Periportal	Inflammation, Chronic
	Acinus	Atrophy, Nos
	Islets	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_003

TRT#: 2
DOSE: 375.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Eye	Crystalline Lens	Cataract
		Retinopathy
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Skin	Tail	Squamous Cell Papilloma
Spleen		Hematopoiesis
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urethra		Calculus, Microscopic Examination

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma
Bone marrow		Fibrosis
Eye	Sclera	Mineralization Retinopathy
Heart		Inflammation, Chronic
Kidney	Pelvis Tubule	Hyperplasia, Epithelial Nephropathy Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Cyst, Multiple
Pancreas	Acinus Acinus	Acinar-Cell Adenoma Atrophy, Nos Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland Forestomach	Dilatation, Nos Inflammation, Chronic
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Necrosis, Nos
Eye	Cornea	Inflammation, Active Chronic Retinopathy
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Seminal vesicle		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Cyst, Embryonal Duct Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Active Chronic
Salivary gland		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
	Acinus	Hyperplasia, Nos
	Islets	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Salivary gland		Atrophy, Nos
Spleen		Fibrosis
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Tongue		Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Nephropathy Pigmentation, Nos Transitional-Cell Carcinoma
Liver	Bile Duct Periportal	Focal Cellular Change Hyperplasia, Nos Inflammation, Chronic
Lung		C-Cell Carcinoma, Metastatic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Trunk	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Pancreas		Acinar-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Spleen		Fibrosis
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
	Scrotum Nos	Steatitis
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Cyst, Multiple
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
		Granuloma, Nos
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Congestion, Nos
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Seminal vesicle		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization
	Scrotum Nos	Steatitis
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_013

TRT#: 2
DOSE: 375.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic Metamorphosis, Fatty
Mammary gland		Cyst, Multiple
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Active Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Thyroid		Cystic Follicles Hyperplasia, C Cell Pigmentation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_015

TRT#: 2
DOSE: 375.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye		Retinopathy
Heart	Atrium	Dilatation, Nos
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Skin	Lip Nos	Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Fibrosis
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Bronchopneumonia, Chronic Histiocytosis
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Salivary gland		Atrophy, Nos
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, Follicular Cell
		Pigmentation, Nos
Unspecified	Leg	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Hyperplasia, Focal
	Tubule	Mineralization
		Nephropathy
Liver	Tubule	Pigmentation, Nos
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Neoplastic Nodule
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Acinar-Cell Adenoma
	Anterior Pituitary	Atrophy, Nos
Pituitary gland		Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Eye	Crystalline Lens	Cataract
		Retinopathy
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Cyst, Nos
Nasal cavity		Foreign Material, Nos
		Inflammation, Acute
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
		Mineralization
Seminal vesicle		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla Medulla	Degeneration, Lipoid Hyperplasia, Nos Hyperplasia, Nos Pheochromocytoma
Eye		Phthisis Bulbi Retinopathy
Heart		Inflammation, Chronic
Intestine Small	Mesentery Nos	Ulcer, Nos
Kidney	Tubule	Mineralization Nephropathy
Liver	Tubule Bile Duct Periportal	Pigmentation, Nos Hyperplasia, Nos Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pancreas		Acinar-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cystic Ducts Inflammation, Chronic
Skin		Keratoacanthoma
Spleen		Fibrosis Hematopoiesis
Stomach	Fundal Gland Forestomach Forestomach	Pigmentation, Nos Dilatation, Nos Edema, Nos Hyperkeratosis
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
Heart		Retinopathy
Kidney		Inflammation, Chronic
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Histiocytosis
Pancreas	Acinus	Atrophy, Nos
	Acinus	Hyperplasia, Nos
Salivary gland		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
	Scrotum Nos	Steatitis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Degeneration, Lipoid Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Active Chronic
Salivary gland		Mineralization
Spleen		Pigmentation, Nos
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_022	TRT#: 2 DOSE: 375.0 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Eye	Crystalline Lens	Cataract Phthisis Bulbi Retinopathy	
Heart		Inflammation, Chronic	
Kidney	Pelvis	Hyperplasia, Epithelial Nephropathy	
	Tubule	Pigmentation, Nos Tubular-Cell Adenoma	
Liver		Focal Cellular Change	
	Bile Duct	Hyperplasia, Nos	
	Periportal	Inflammation, Chronic	
Lung		Alveolar/Bronchiolar Carcinoma	
Mammary gland		Cyst, Multiple	
Pancreas	Acinus	Atrophy, Nos	
	Islets	Islet-Cell Carcinoma Periarteritis	
Pituitary gland	Anterior Pituitary	Adenoma, Nos	
	Anterior Pituitary	Hyperplasia, Nos	
Preputial gland		Inflammation, Chronic	
Spleen		Hematopoiesis Pigmentation, Nos	
Stomach	Fundal Gland	Dilatation, Nos	
	Forestomach	Hyperplasia, Epithelial	
	Forestomach	Inflammation, Chronic	
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor	
Thyroid	Tubule	Mineralization C-Cell Carcinoma Hyperplasia, C Cell	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Nasal cavity	Turbinates Nos	Inflammation, Active Chronic
Pancreas	Acinus	Atrophy, Nos Inflammation, Chronic
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Cyst, Nos
Preputial gland		Carcinoma, Nos
Spleen		Hematopoiesis Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Oligospermia Cystic Follicles
Thyroid		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Crystalline Lens	Cataract
		Hemorrhage
		Retinopathy
Harderian gland	Hardarian Gland	Inflammation, Chronic
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Seminal vesicle		Atrophy, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Megakaryocytic
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Turbinates Nos	Inflammation, Active Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Intermedia	Cyst, Nos
Preputial gland		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Plasmacytosis
Nasal cavity		Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Adenoma, Nos
		Inflammation, Active Chronic
Prostate		Inflammation, Active Chronic
Salivary gland		Inflammation, Chronic
Spleen		Hematopoiesis
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Metamorphosis, Fatty Pheochromocytoma
Heart		Inflammation, Chronic
Intestine Small	Duodenum Duodenum	Inflammation, Acute Ulcer, Nos
Kidney	Pelvis Tubule	Hyperplasia, Epithelial Nephropathy Pigmentation, Nos
Liver	Bile Duct Periportal	Hyperplasia, Nos Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Preputial gland		Inflammation, Active Chronic
Seminal vesicle		Dilatation, Nos
Spleen		Fibrosis Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland Forestomach Forestomach Forestomach Forestomach	Dilatation, Nos Hyperkeratosis Hyperplasia, Epithelial Inflammation, Chronic Ulcer, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
Thyroid		Follicular-Cell Carcinoma Hyperplasia, C Cell
Urethra		Calculus, Microscopic Examination

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_029

TRT#: 2
DOSE: 375.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Brain		Hemorrhage
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Granuloma, Nos
	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Mammary gland		Hyperplasia, Cystic
Nasal cavity	Turbinate Nos	Inflammation, Chronic
		Inflammation, Chronic
Spleen		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Oligospermia
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Necrosis, Nos
Lung		Granuloma, Nos
		Hemorrhage
Nasal cavity		Inflammation, Chronic
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hemangiosarcoma
		Hematopoiesis
		Pigmentation, Nos
		Sarcoma, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Unspecified	Leg	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Congestion, Nos
Pancreas		Acinar-Cell Adenoma
	Acinus	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Seminal vesicle		Atrophy, Nos
Spleen		Fibrosis
		Hematopoiesis
		Pigmentation, Nos
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
		Inflammation, Active Chronic
	Forestomach	Inflammation, Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Cortex	Cyst, Nos
	Tubule	Hyperplasia, Focal
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Metamorphosis, Fatty
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Cortical Adenoma
	Medulla	Hyperplasia, Nos
Kidney	Tubule	Hyperplasia, Focal
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Hematopoiesis
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Adenoma, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization
		Cystic Follicles
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Abscess, Nos
		Inflammation, Chronic
Prostate		Inflammation, Chronic
Seminal vesicle		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma, Malignant
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
Liver	Tubule Bile Duct Periportal	Pigmentation, Nos Cytoplasmic Vacuolization Hyperplasia, Nos Inflammation, Chronic
Lung		Hemorrhage
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Intermedia	Cyst, Multiple
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid	Scrotum Nos	Steatitis
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
Liver	Tubule	Pigmentation, Nos Cytoplasmic Vacuolization Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland	Intermedia	Adenoma, Nos Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization C-Cell Adenoma
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell Leukemia, Mononuclear Cell
	Trunk	Neurofibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_038

TRT#: 2
DOSE: 375.0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma, Malignant
Bone marrow		Fibrosis
Heart		Inflammation, Chronic
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Hemorrhage
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Active Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Hemorrhage
		Necrosis, Nos
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Necrosis, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Adenoma, Nos
		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_040

TRT#: 2
DOSE: 375.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
Liver	Tubule	Pigmentation, Nos Focal Cellular Change
Mammary gland	Bile Duct	Hyperplasia, Nos Fibroadenoma
Nasal cavity		Inflammation, Chronic
Pancreas	Acinus Acinus	Atrophy, Nos Hyperplasia, Nos
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Cyst, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
	Cortex Nos	Pigmentation, Nos
Bone marrow		Hyperplasia, Megakaryocytic
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Metamorphosis, Fatty
	Capsule	Mineralization
		Neoplastic Nodule
Lung		Alveolar/Bronchiolar Adenoma
		Hemorrhage
Nasal cavity		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Inflammation, Active Chronic
		Ulcer, Nos
Urethra		Calculus, Microscopic Examination

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic Metamorphosis, Fatty
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Hyperplasia, Nos
	Islets	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Carcinoma, Nos
Prostate		Inflammation, Active Chronic
Spleen		Fibrosis Hematopoiesis
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization Hyperplasia, C Cell
Thyroid		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Pelvis	Hemorrhage
	Tubule	Mineralization
		Nephropathy
Liver	Tubule	Pigmentation, Nos
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Nasal cavity		Inflammation, Chronic
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Seminal vesicle		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization
	Cortex Nos	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Seminal vesicle		Atrophy, Nos
Skin	Ear	Squamous Cell Papilloma
Spleen		Hematopoiesis
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Vein Nos	Mineralization
Heart		Inflammation, Chronic
		Mineralization
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pancreas		Acinar-Cell Adenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Spleen		Fibrosis
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_046

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Nos
	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Cyst, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Seminal vesicle		Atrophy, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tunica Albuginea	Mesothelioma, Nos
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_047

TRT#: 2
DOSE: 375.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Hemorrhage
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Pneumonia, Interstitial Chronic
Nasal cavity	Turbinate Nos	Inflammation, Chronic
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Acute
	Forestomach	Ulcer, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Compression, Nos
Heart		Inflammation, Chronic
Intestine Small	Duodenum	Erosion
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 375.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart		Inflammation, Chronic
		Neurilemoma, Malignant
Kidney	Pelvis	Hyperplasia, Epithelial
		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Cyst, Multiple
Pancreas		Cystic Ducts
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Spleen		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization
		Follicular-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_101

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
	Periportal	Metamorphosis, Fatty
Pancreas	Islets	Islet-Cell Adenoma
Preputial gland		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Groin	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_102

TRT#: 3
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Centrilobular	Cytoplasmic Vacuolization Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic Congestion, Nos
Lung		Periarteritis
Pancreas		Cyst, Nos
Pituitary gland	Anterior Pituitary	Inflammation, Chronic
Preputial gland		Hematopoiesis
Spleen		Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_103

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Accessory Structure Degeneration, Lipoid Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Pelvis	Hemorrhage Nephropathy
Liver	Tubule	Pigmentation, Nos Cytoplasmic Vacuolization Granuloma, Nos
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Nasal cavity		Inflammation, Chronic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Pigmentation, Nos Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_104

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Fibrosis
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
	Scrotum Nos	Steatitis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_105

TRT#: 3
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Alveolar/Bronchiolar Adenoma
		Bronchopneumonia, Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Skin	Trunk	Keratoacanthoma
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
	Colloid	Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_106

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Focal Cellular Change
	Periportal	Hyperplasia, Nos Inflammation, Chronic Metamorphosis, Fatty Necrosis, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Interstitial-Cell Tumor
	Scrotum Nos	Steatitis
Thymus		Cyst, Multiple
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_107

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
	Atrium	Thrombus, Organized
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Cytoplasmic Vacuolization
		Focal Cellular Change
	Periportal	Inflammation, Chronic
Lung		Pneumonia, Interstitial Chronic
Nasal cavity		Hemorrhage
Pancreas	Acinus	Atrophy, Nos
	Acinus	Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_108

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Accessory Structure
		Cytoplasmic Vacuolization
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Seminal vesicle		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Unspecified	Abdomen	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_109

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_110

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_111

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Degeneration, Lipoid Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change Hematopoiesis
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic Neoplastic Nodule
Pancreas	Acinus	Focal Cellular Change
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Hyperplasia, Nos
Preputial gland		Inflammation, Active Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Lipoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_112	TRT#: 3 DOSE: 0	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Heart		Inflammation, Chronic	
Kidney	Tubule	Mineralization Nephropathy	
	Tubule	Pigmentation, Nos Focal Cellular Change Granuloma, Nos Hepatocytomegaly	
Liver	Bile Duct Periportal	Hyperplasia, Nos Inflammation, Chronic Metamorphosis, Fatty	
Lung		Alveolar/Bronchiolar Adenoma Histiocytosis	
Mammary gland		Cyst, Multiple	
Pancreas	Acinus	Atrophy, Nos	
Pituitary gland	Anterior Pituitary	Adenoma, Nos	
Preputial gland		Inflammation, Active Chronic	
Prostate		Inflammation, Active Chronic	
Spleen		Hematopoiesis Pigmentation, Nos	
Stomach	Forestomach	Hyperplasia, Epithelial	
Testis		Atrophy, Nos Interstitial-Cell Tumor	
	Tubule	Mineralization Hyperplasia, C Cell	
Thyroid			
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_113

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_114

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Intestine Small	Mesentery Nos	Steatitis
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
	Centrilobular	Metamorphosis, Fatty
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_115

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Skin	Trunk	Squamous Cell Papilloma
Spleen		Hematopoiesis
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_116

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_117

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_118

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
Preputial gland		Inflammation, Active Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
		C-Cell Adenoma
		C-Cell Carcinoma
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_119

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Pneumonia, Interstitial Chronic
Pancreas	Islets	Islet-Cell Carcinoma
Preputial gland		Inflammation, Chronic
Skin	Groin	Basal-Cell Tumor
Spleen		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_120

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Hemorrhage
Mammary gland		Cyst, Multiple
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_121

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Eye	Crystalline Lens	Cataract
	Sclera	Mineralization
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
Preputial gland		Inflammation, Active Chronic
Spleen		Fibrosis
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_122

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Nos Pheochromocytoma
Kidney	Tubule	Nephropathy Pigmentation, Nos
Liver	Periportal Bile Duct Periportal	Cytoplasmic Vacuolization Focal Cellular Change Hyperplasia, Nos Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary Anterior Pituitary	Cyst, Nos Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen	Capsule	Fibrosis Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid	Tubule	Mineralization Cystic Follicles Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_123

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Focal Cellular Change
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Carcinoma, Nos
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Hyperplasia, Lymphoid
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_124

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Neoplastic Nodule
Lung		Congestion, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas		Acinar-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_125

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Nasal cavity		Inflammation, Acute
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_126

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Heart	Epicardium	Inflammation, Active Chronic
		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_127

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Metamorphosis, Fatty
Lung		Histiocytosis
		Pneumonia, Interstitial Chronic
Pancreas	Acinus	Atrophy, Nos
		Periarteritis
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Congestion, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_128

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Cyst, Nos
Preputial gland		Inflammation, Active Chronic
Spleen		Fibrosis
		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thymus		Thymoma, Benign

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_129

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Carcinoma
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_130

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
		Hematopoiesis
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Inflammation, Chronic
Seminal vesicle		Atrophy, Nos
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_131

TRT#: 3
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Accessory Structure
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart		Inflammation, Chronic
Kidney		Nephropathy
Liver		Focal Cellular Change
Pancreas	Islets	Islet-Cell Adenoma
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Unspecified	Multiple Organs Nos	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_132

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Congestion, Nos Hemorrhage
Lymph node		Cyst, Nos
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cystic Ducts Inflammation, Active Chronic
Prostate		Inflammation, Active Chronic
Salivary gland		Atrophy, Nos
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization C-Cell Carcinoma
Thyroid		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_133

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Active Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Cystic Follicles Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_134

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
Liver	Tubule	Pigmentation, Nos Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
	Centrilobular	Metamorphosis, Fatty
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Active Chronic
Spleen		Hematopoiesis Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_135

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Active Chronic
Spleen		Hyperplasia, Lymphoid
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
	Tubule	Interstitial-Cell Tumor
	Scrotum Nos	Mineralization
		Steatitis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_136

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart		Inflammation, Chronic
Kidney	Pelvis	Calculus, Microscopic Examination
	Tubule	Mineralization
		Nephropathy
Liver	Tubule	Pigmentation, Nos
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Mammary gland		Cyst, Multiple
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_137

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Histiocytosis
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_138

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Metamorphosis, Fatty
		Neoplastic Nodule
Mammary gland		Cyst, Multiple
Nasal cavity		Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization
	Scrotum Nos	Steatitis
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_139

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Periportal	Metamorphosis, Fatty
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Inflammation, Chronic
Skin	Back	Squamous Cell Carcinoma
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization Hyperplasia, C Cell
Thyroid		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_140

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Congestion, Nos
Mammary gland		Cyst, Multiple
		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_141

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Atrium	Dilatation, Nos Inflammation, Chronic
Kidney	Pelvis	Leiomyosarcoma Nephropathy
Liver	Tubule	Pigmentation, Nos Focal Cellular Change
Lung	Bile Duct	Hyperplasia, Nos
Pancreas	Periportal	Inflammation, Chronic
Preputial gland	Periportal	Metamorphosis, Fatty Congestion, Nos
Spleen	Acinus	Atrophy, Nos Inflammation, Chronic Hematopoiesis Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_142

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lung		Hyperplasia, Alveolar Epithelium
		Pneumonia, Interstitial Chronic
Mammary gland		Cyst, Multiple
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_143

TRT#: 3
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Epididymis		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Preputial gland		Inflammation, Chronic
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		C-Cell Adenoma
		Cystic Follicles
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_144

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Preputial gland		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Seminal vesicle		Atrophy, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
	Scrotum Nos	Steatitis
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_145

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Cyst, Multiple
Preputial gland		Inflammation, Chronic
Spleen		Pigmentation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_146

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization
		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cyst, Embryonal Duct
		Cystic Follicles
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_147

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Cyst, Multiple
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
		Inflammation, Chronic
	Periportal	Metamorphosis, Fatty
Lung		Congestion, Nos
Pancreas	Acinus	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_148

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart		Inflammation, Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
		Metamorphosis, Fatty
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Cystic Ducts
		Inflammation, Chronic
Spleen		Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Urethra		Calculus, Microscopic Examination

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2-Mercaptobenzothiazole

CAS Number: 149-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 11:12:03

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_149

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Kidney	Tubule	Mineralization Nephropathy
	Tubule	Pigmentation, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
	Periportal	Metamorphosis, Fatty
Lung		Histiocytosis Pneumonia, Interstitial Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Preputial gland		Inflammation, Suppurative
Prostate		Inflammation, Active Chronic
Skin	Elbow	Basal-Cell Tumor
Spleen		Hematopoiesis Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C56519
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2-Mercaptobenzothiazole
CAS Number: 149-30-4

Date Report Requested: 10/26/2014
Time Report Requested: 11:12:03
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_150

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart		Inflammation, Chronic
Kidney	Pelvis	Calculus, Microscopic Examination Hemorrhage Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Focal Cellular Change
	Periportal	Hyperplasia, Nos
Preputial gland		Inflammation, Chronic
Spleen		Inflammation, Chronic Hematopoiesis
		Pigmentation, Nos
Stomach	Fundal Gland	Dilatation, Nos
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		C-Cell Carcinoma Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE