

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

C Number: C55652

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_051

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Myocardium Nos

Inflammation, Chronic

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Inflammation, Active Chronic

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Thymus

Interstitial-Cell Tumor

Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_052

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Cortex Nos

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Neoplastic Nodule

Pancreas

Acinus

Atrophy, Nos

Prostate

Inflammation, Active Chronic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Thymus

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_053

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Nos
	Periportal Bile Ductule	Hyperplasia, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_054

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Metamorphosis, Fatty
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_055

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Lung	Alveoli	Edema, Nos
		Hyperplasia, Alveolar Epithelium
Pancreas	Acinus	Atrophy, Nos
Spleen		Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
	Tubule	Distention
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Adipose Tissue	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_056

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Cortex Nos

Myocardium Nos

Periportal Bile Ductule

Pituitary gland

Prostate

Stomach

Testis

Thymus

Thyroid

Anterior Pituitary

Glandular Stomach

Angiectasis

Fibrosis

Nephropathy

Cytoplasmic Change, Basophilic

Hyperplasia, Nos

Metamorphosis, Fatty

Hyperplasia, Focal

Inflammation, Active Chronic

Cyst, Multiple

Interstitial-Cell Tumor

Cyst, Nos

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_057

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Nos
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Forestomach	Hyperplasia, Epithelial
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_058

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Nephrosis, Nos
Liver	Periportal Bile Ductule	Clear-Cell Change
		Hyperplasia, Nos
		Necrosis, Nos
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Active Chronic
Spleen		Hemosiderosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_059

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Bone marrow

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Hyperplasia, Nos

Kidney

Myocardium Nos

Fibrosis

Liver

Periportal Bile Ductule

Mineralization

Pituitary gland

Anterior Pituitary

Nephropathy

Testis

Angiectasis

Hyperplasia, Nos

Neoplastic Nodule

Angiectasis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_060

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Necrosis, Coagulative
Pituitary gland	Anterior Pituitary	Cyst, Nos
Spleen		Fibroma
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_061

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus Acinus	Atrophy, Nos Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Interstitial-Cell Tumor Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_062

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas		Cystic Ducts
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Hemosiderosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_063

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Cortex Nos

Hyperplasia, Focal

Kidney

Myocardium Nos

Fibrosis

Liver

Nephropathy

Stomach

Periportal Bile Ductule

Angiectasis

Testis

Glandular Stomach

Hyperplasia, Nos

Thymus

Cyst, Multiple

Unspecified

Interstitial-Cell Tumor

Cyst, Nos

Adipose Tissue

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_064

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Angiectasis

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Lung

Perivascular Cuffing

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Angiectasis

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_065

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Fibrosis
	Mitral Valve Nos	Inflammation, Chronic
Kidney		Nephropathy
		Perivascular Cuffing
Liver		Angiectasis
	Hepatocytes	Cytoplasmic Vacuolization
		Hyperplasia, Focal
	Periportal Bile Ductule	Hyperplasia, Nos
	Periportal	Inflammation, Chronic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen		Hyperplasia, Lymphoid
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
Thyroid		Hyperplasia, C Cell
Unspecified	Adipose Tissue	Eosinophilic Leukocytic Infiltrate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_066

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis Clear-Cell Change Cytoplasmic Change, Basophilic Cytoplasmic Change, Nos
	Periportal Bile Ductule	Hyperplasia, Nos Necrosis, Coagulative
Lung		Hemosiderosis Pneumonia, Interstitial Chronic
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary Posterior Lobe	Adenoma, Nos Cyst, Multiple
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:56

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_067

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Clear-Cell Change

Periportal Bile Ductule

Hyperplasia, Nos

Lung

Hyperplasia, Alveolar Epithelium

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_068

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_069

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Clear-Cell Change
		Focal Cellular Change
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Preputial gland		Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid	Follicle	Degeneration, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_070

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Myocardium Nos

Fibrosis

Myocardium Nos

Inflammation, Chronic

Kidney

Nephropathy

Liver

Angiectasis

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Inflammation, Active Chronic

Spleen

Hemosiderosis

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_071

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Myocardium Nos

Degeneration, Nos

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Angiectasis

Clear-Cell Change

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Prostate

Inflammation, Active Chronic

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_072

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Bone marrow		Hyperplasia, Nos
Brain	Stem	Hemorrhage
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Spleen		Ectopia
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Adipose Tissue	Necrosis, Fat
Urinary bladder		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_073

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Liver

Cortex Nos
Myocardium Nos

Hyperplasia, Focal
Fibrosis
Nephropathy
Angiectasis
Clear-Cell Change
Cytoplasmic Change, Basophilic
Hyperplasia, Nos
Adenoma, Nos
Inflammation, Active Chronic
Cyst, Multiple
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
C-Cell Carcinoma

Pituitary gland
Prostate
Stomach
Testis

Periportal Bile Ductule
Anterior Pituitary

Thyroid

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_074

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Kidney
Liver

Artery Nos

Inflammation, Active Chronic
Nephropathy
Clear-Cell Change
Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos
Inflammation, Active Chronic
Fibrosis

Prostate
Spleen

Leukemia, Mononuclear Cell

Stomach
Testis

Glandular Stomach

Cyst, Multiple
Atrophy, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_075

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Perivascular Cuffing
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pituitary gland	Intermedia	Cyst, Nos
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_076

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Prostate

Inflammation, Active Chronic

Spleen

Fibrosis

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

Ear

Neurofibrosarcoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_077

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Fibrosis, Myelo
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pituitary gland	Intermedia	Angiectasis
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Spleen		Fibrosis
		Leukemia, Mononuclear Cell
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Adipose Tissue	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_078

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_079

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Medulla

Pheochromocytoma

Bone marrow

Hyperplasia, Nos

Eye

Cornea

Inflammation, Acute

Lens, Cortex

Mineralization

Myocardium Nos

Fibrosis

Heart

Kidney

Nephropathy

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Thyroid

Cyst, Nos

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_080

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Clear-Cell Change

Periportal Bile Ductule

Hyperplasia, Nos

Lung

Perivascular Cuffing

Lymph node

Mandibular Lymph Node

Lymphangiectasis

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_081

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Cortex Nos

Hyperplasia, Focal

Medulla

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Cytoplasmic Change, Ground-Glass

Hyperplasia, Focal

Periportal Bile Ductule

Hyperplasia, Nos

Lymph node

Mandibular Lymph Node

Lymphangiectasis

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Testis

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

C-Cell Adenoma

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_082

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Hyperplasia, Focal
Pituitary gland	Periportal Bile Ductule	Hyperplasia, Nos
	Intermedia	Angiectasis
	Anterior Pituitary	Hyperplasia, Focal
Spleen		Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Interstitial-Cell Tumor
	Adipose Tissue	Leukemia, Mononuclear Cell
		Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_083

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
		Nephrosis, Hydro
Liver		Angiectasis
		Cytoplasmic Change, Nos
	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_084

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_085

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Esophagus		Hyperplasia, Epithelial
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Cytoplasmic Vacuolization
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Adenoma
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pancreas	Acinus	Atrophy, Nos
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_086

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Spleen		Fibrosis
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Adipose Tissue	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_087

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Bone marrow
Heart
Kidney
Liver
Pituitary gland
Stomach
Testis

Cortex Nos

Myocardium Nos

Periportal Bile Ductule
Anterior Pituitary
Glandular Stomach

Angiectasis
Hyperplasia, Nos
Fibrosis
Nephropathy
Hyperplasia, Nos
Cyst, Nos
Cyst, Multiple
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_088

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Cortex Nos

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Angiectasis

Clear-Cell Change

Hepatocytes

Cytoplasmic Vacuolization

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Intermedia

Adenoma, Nos

Prostate

Intermedia

Angiectasis

Inflammation, Active Chronic

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_089

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Cortex Nos

Hyperplasia, Focal

Kidney

Myocardium Nos

Fibrosis

Liver

Nephropathy

Angiectasis

Clear-Cell Change

Cytoplasmic Change, Basophilic

Cytoplasmic Vacuolization

Pancreas

Hepatocytes

Hyperplasia, Nos

Prostate

Periportal Bile Ductule

Atrophy, Nos

Testis

Acinus

Inflammation, Active Chronic

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_090

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Periportal Bile Ductule	Cytoplasmic Change, Basophilic
		Hyperplasia, Nos
		Neoplastic Nodule
Pancreas	Acinus	Atrophy, 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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_091

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_092

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Cortex Nos

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

Unspecified

Adipose Tissue

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_093

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Periportal Bile Ductule	Hyperplasia, Nos
Lung	Alveoli	Distention
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Carcinoma, Nos
Prostate		Inflammation, Active Chronic
		Mineralization
Spleen		Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_094

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Lung	Alveoli	Fibrosis, Focal
		Perivascular Cuffing
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_095

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Periportal Bile Ductule	Hyperplasia, Nos
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_096

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Lung		Perivascular Cuffing
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Adipose Tissue	Inflammation, Chronic
	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Adipose Tissue	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_097

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Heart

Kidney

Liver

Testis

Unspecified

Myocardium Nos

Myocardium Nos

Periportal Bile Ductule

Multiple Organs Nos

Hyperplasia, Nos

Fibrosis

Mineralization

Nephropathy

Hemosiderosis

Hyperplasia, Nos

Atrophy, Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_098

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Neoplastic Nodule

Anterior Pituitary

Cyst, Nos

Spleen

Hyperplasia, Focal

Testis

Hemosiderosis

Atrophy, Nos

Unspecified

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_099

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Cortex Nos

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Prostate

Inflammation, Active Chronic

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Thyroid

Cyst, Follicular Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_100

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Prostate

Metamorphosis, Fatty

Stomach

Glandular Stomach

Inflammation, Active Chronic

Testis

Cyst, Multiple

Thyroid

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Preputial gland		Adenoma, Nos
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos Necrosis, Coagulative
Skin		Cyst, Epidermal Inclusion
Spleen		Ectopia
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Intermedia	Angiectasis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Liver

Cortex Nos
Myocardium Nos

Hyperplasia, Focal
Fibrosis
Nephropathy
Clear-Cell Change
Cytoplasmic Change, Basophilic
Cytoplasmic Vacuolization
Hyperplasia, Nos
Cyst, Multiple
Atrophy, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Hyperplasia, C Cell

Stomach
Testis

Hepatocytes
Periportal Bile Ductule
Glandular Stomach

Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Blood vessel	Testicular Artery	Inflammation, Fibrinoid
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
		Metamorphosis, Fatty
Lung		Perivascular Cuffing
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Retina	Atrophy, Nos
	Lens, Cortex	Mineralization
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Clear-Cell Change
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Spleen		Leukemia, Mononuclear Cell
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
		Inflammation, Chronic
Unspecified		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Medulla

Pheochromocytoma

Kidney

Myocardium Nos

Fibrosis

Liver

Nephropathy

Clear-Cell Change

Lung

Periportal Bile Ductule

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Hyperplasia, Nos

Pancreas

Acinus

Perivascular Cuffing

Prostate

Lymphangiectasis

Testis

Atrophy, Nos

Inflammation, Active Chronic

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Intermedia	Angiectasis
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Medulla

Pheochromocytoma

Kidney

Myocardium Nos

Fibrosis

Liver

Nephropathy

Angiectasis

Clear-Cell Change

Hyperplasia, Focal

Pancreas

Periportal Bile Ductule

Hyperplasia, Nos

Prostate

Acinus

Atrophy, Nos

Testis

Hyperplasia, Epithelial

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Cytoplasmic Change, Ground-Glass

Periportal Bile Ductule

Hyperplasia, Nos

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart

Medulla
Myocardium Nos
Epicardium
Myocardium Nos

Pheochromocytoma
Fibrosis
Inflammation, Chronic
Inflammation, Chronic
Nephropathy

Kidney
Liver

Periportal Bile Ductule
Portal Tract
Anterior Pituitary

Hyperplasia, Nos
Inflammation, Chronic
Adenoma, Nos
Inflammation, Active Chronic

Pituitary gland
Prostate
Stomach
Testis

Glandular Stomach

Cyst, Multiple
Atrophy, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Leukemia, Eosinophilic
Leukemia, Mononuclear Cell

Unspecified

Multiple Organs Nos
Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Intermedia	Angiectasis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Myocardium Nos

Inflammation, Chronic

Kidney

Nephropathy

Liver

Hyperplasia, Focal

Periportal Bile Ductule

Hyperplasia, Nos

Neoplastic Nodule

Spleen

Fibrosis

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Lung	Alveoli	Edema, Nos
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Nos
	Peripancreatic Tissue	Necrosis, Fat
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cortical Adenoma

Bone marrow

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Metamorphosis, Fatty

Kidney

Periportal Bile Ductule

Hyperplasia, Nos

Liver

Acinus

Fibrosis

Pancreas

Anterior Pituitary

Nephropathy

Pituitary gland

Prostate

Atrophy, Nos

Spleen

Hyperplasia, Focal

Stomach

Glandular Stomach

Inflammation, Active Chronic

Hematopoiesis

Testis

Forestomach

Cyst, Multiple

Hyperplasia, Epithelial

Forestomach

Inflammation, Active Chronic

Forestomach

Ulcer, Nos

Atrophy, Nos

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Bone marrow

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Stomach

Forestomach

Hyperplasia, Nos

Testis

Hyperplasia, Epithelial

Thyroid

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Adipose Tissue

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
		Neoplastic Nodule
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Spleen		Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Cyst, Nos
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney	Convolutated Tubules	Metamorphosis, Fatty
		Nephropathy
Liver		Angiectasis
	Periportal Bile Ductule	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Necrosis, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Nos
Stomach	Glandular Stomach	Cyst, Multiple
	Forestomach	Hyperplasia, Epithelial
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Bone marrow

Hyperplasia, Nos

Eye

Retina

Atrophy, Nos

Heart

Myocardium Nos

Fibrosis

Myocardium Nos

Mineralization

Kidney

Nephropathy

Liver

Angiectasis

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary Intermedia Anterior Pituitary	Angiectasis Angiectasis Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos Adipose Tissue	Leukemia, Mononuclear Cell Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Intermedia	Angiectasis
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
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: C55652
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ephedrine sulfate
CAS Number: 134-72-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:43:57
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_025

TRT#: 2
DOSE: 125 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Liver		Angiectasis
		Clear-Cell Change
	Periportal Bile Ductule	Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Spleen		Leukemia, Mononuclear Cell
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Cortex Nos

Hyperplasia, Focal

Kidney

Myocardium Nos

Fibrosis

Liver

Nephropathy

Angiectasis

Clear-Cell Change

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Neoplastic Nodule

Spleen

Fibrosis

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Spleen		Fibrosis
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Brain	Cerebellum Nos	Hemorrhage
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Stomach	Forestomach Forestomach	Edema, Nos Inflammation, Chronic
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Interstitial-Cell Tumor Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Bone marrow
Brain
Kidney
Liver

Medulla

Pheochromocytoma
Hyperplasia, Nos
Hemorrhage
Nephropathy
Angiectasis

Periportal Bile Ductule

Hyperplasia, Nos
Necrosis, Coagulative
Atrophy, Nos

Testis

Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone marrow		Hyperplasia, Nos
Brain	Cerebellum Nos	Hemorrhage
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Necrosis, Coagulative
Pituitary gland	Anterior Pituitary	Necrosis, Focal
Prostate		Hyperplasia, Epithelial
Spleen		Necrosis, Focal
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Interstitial-Cell Tumor
		Necrosis, Diffuse
Thymus		Hemorrhage
Thyroid		C-Cell Adenoma
		Cyst, Follicular Nos
Unspecified		Cyst, Epidermal Inclusion
	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Adipose Tissue	Necrosis, Fat
	Multiple Organs Nos	Thrombus, Fibrin

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Intermedia	Angiectasis
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Spleen	Capsule	Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Spleen		Hemosiderosis
Stomach	Glandular Stomach	Cyst, Multiple
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Cortex Nos

Hyperplasia, Focal

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Angiectasis

Clear-Cell Change

Periportal Bile Ductule

Hyperplasia, Nos

Metamorphosis, Fatty

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Prostate

Hyperplasia, Epithelial

Inflammation, Active Chronic

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
		Cytoplasmic Change, Ground-Glass
		Hepatocellular Carcinoma
	Periportal Bile Ductule	Hyperplasia, Nos
		Neoplastic Nodule
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Prostate		Distention
		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Spleen		Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell
		Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
		Cytoplasmic Change, Ground-Glass
	Periportal Bile Ductule	Hyperplasia, Nos
Spleen		Hyperplasia, Stromal
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Eye

Medulla

Pheochromocytoma

Heart

Retina

Atrophy, Nos

Kidney

Lens, Cortex

Mineralization

Myocardium Nos

Fibrosis

Liver

Nephropathy

Scar

Cytoplasmic Change, Basophilic

Cytoplasmic Change, Nos

Pituitary gland

Periportal Bile Ductule

Hyperplasia, Nos

Testis

Anterior Pituitary

Hyperplasia, Focal

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Necrosis, Coagulative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Preputial gland		Adenoma, Nos
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Hemorrhage
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Eye	Lens, Cortex	Cataract
Heart	Myocardium Nos Myocardium Nos	Fibrosis Inflammation, Chronic
Kidney		Nephropathy
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic Hyperplasia, Nos Neoplastic Nodule
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Unspecified		Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Medulla	Pheochromocytoma
Eye	Retina	Atrophy, Nos
	Lens, Cortex	Mineralization
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Inflammation, Active Chronic

Testis

Hyperplasia, Interstitial Cell

Unspecified

Lipoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Myocardium Nos

Inflammation, Chronic

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Inflammation, Active Chronic

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Clear-Cell Change
		Focal Cellular Change
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Hyperplasia, Alveolar Epithelium
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
	Forestomach	Edema, Nos
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	C-Cell Adenoma
		Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_046

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Bone marrow		Hyperplasia, Nos
Eye	Retina	Atrophy, Nos
	Lens, Cortex	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Granuloma, Nos
	Periportal Bile Ductule	Hyperplasia, Nos
Lung	Alveoli	Inflammation, Chronic Focal
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Angiectasis
	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hematopoiesis
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Cytoplasmic Change, Nos
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Salivary gland	Submaxillary Duct	Hyperplasia, Epithelial
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Heart
Kidney
Liver
Lymph node
Pituitary gland
Testis

Cortex Nos
Splenic Artery
Myocardium Nos

Periportal Bile Ductule
Mandibular Lymph Node
Anterior Pituitary

Hyperplasia, Focal
Hypertrophy, Nos
Fibrosis
Nephropathy
Hyperplasia, Nos
Lymphangiectasis
Adenoma, Nos
Atrophy, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Necrosis, Fat

Unspecified

Adipose Tissue

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Myocardium Nos

Mineralization

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Lung

Hyperplasia, Alveolar Epithelium

Lymph node

Mandibular Lymph Node

Lymphangiectasis

Mammary gland

Hyperplasia, Cystic

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Unspecified

C-Cell Adenoma

Inflammation, Chronic

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_102

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Cortex Nos

Hyperplasia, Focal

Myocardium Nos

Fibrosis

Myocardium Nos

Mineralization

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Hepatocytes

Cytoplasmic Vacuolization

Periportal Bile Ductule

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Angiectasis

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Prostate

Inflammation, Active Chronic

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

Unspecified

Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Cytoplasmic Vacuolization
		Hyperplasia, Nos
Lung		Perivascular Cuffing
Pancreas	Acinus	Atrophy, Nos
Skin	Tail	Inflammation, Necrotizing
Spleen	Capsule	Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_105

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Angiectasis
	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Ground-Glass
		Hyperplasia, Focal
	Periportal Bile Ductule	Hyperplasia, Nos
		Necrosis, Coagulative
Parathyroid gland		Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_106

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Cytoplasmic Change, Nos
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_107

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Degeneration, Ballooning
	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Cytoplasmic Vacuolization
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland	Intermedia	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_108

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Heart

Cortex Nos

Hyperplasia, Focal

Kidney

Myocardium Nos

Fibrosis

Liver

Nephropathy

Clear-Cell Change

Hepatocytes

Cytoplasmic Vacuolization

Periportal Bile Ductule

Hyperplasia, Nos

Lung

Hyperplasia, Alveolar Epithelium

Prostate

Inflammation, Active Chronic

Testis

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Cortex Nos

Hyperplasia, Focal

Cortex Nos

Metamorphosis, Fatty

Medulla

Pheochromocytoma

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Degeneration, Nos

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Angiectasis

Hepatocellular Carcinoma

Hyperplasia, Focal

Stomach

Periportal Bile Ductule

Hyperplasia, Nos

Testis

Glandular Stomach

Cyst, Multiple

Atrophy, Nos

Thyroid

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Follicular-Cell Adenoma

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_110

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Fibrosis

Myocardium Nos

Mineralization

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Mammary gland

Hyperplasia, Cystic

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Carcinoma, Nos

Prostate

Inflammation, Active Chronic

Skin

Ulcer, Nos

Testis

Hyperplasia, Interstitial Cell

Thyroid

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Active Chronic
Skin		Fibrosis
		Mineralization
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_112

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Kidney

Nephropathy

Liver

Periportal Bile Ductule

Hyperplasia, Nos

Prostate

Inflammation, Active Chronic

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_113

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone marrow

Hyperplasia, Nos

Kidney

Nephropathy

Liver

Periportal

Inflammation, Active Chronic

Inflammation, Acute Focal

Lung

Congestion, Nos

Pancreas

Alveoli

Edema, Nos

Thymus

Inflammation, Acute Diffuse

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Adrenal gland

Bone marrow

Kidney

Liver

Cortex Nos

Hepatocytes

Periportal Bile Ductule

Anterior Pituitary

Pituitary gland

Testis

Thyroid

Hyperplasia, Focal

Fibrosis, Myelo

Nephropathy

Clear-Cell Change

Cytoplasmic Change, Basophilic

Cytoplasmic Vacuolization

Granuloma, Nos

Hyperplasia, Nos

Hyperplasia, Focal

Interstitial-Cell Tumor

C-Cell Adenoma

Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Cortex Nos

Angiectasis

Cortex Nos

Hyperplasia, Focal

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Myocardium Nos

Fibrosis

Myocardium Nos

Inflammation, Chronic

Kidney

Nephropathy

Liver

Angiectasis

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Myocardium Nos

Mineralization

Kidney

Nephropathy

Nephrosis, Hydro

Liver

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_117

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebellum Nos	Medulloblastoma
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver	Capsule	Inflammation, Chronic Focal
		Metamorphosis, Fatty
Lung		Congestion, Nos
Pancreas		Inflammation, Chronic
Prostate		Inflammation, Active Chronic
Spleen		Hemosiderosis
Stomach	Glandular Stomach	Cyst, Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_118

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
Pancreas	Periportal Bile Ductule	Hyperplasia, Nos
Prostate	Acinus	Atrophy, Nos
Spleen		Inflammation, Active Chronic
Stomach	Glandular Stomach	Fibrosis
Testis		Cyst, Multiple
Unspecified	Multiple Organs Nos	Hyperplasia, Interstitial Cell
		Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_119

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cyst, Nos

Cortex Nos

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Cytoplasmic Change, Ground-Glass

Periportal Bile Ductule

Hyperplasia, Nos

Pituitary gland

Intermedia

Cyst, Nos

Preputial gland

Inflammation, Necrotizing

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Hyperplasia, Interstitial Cell

Unspecified

Interstitial-Cell Tumor

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_120

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Metamorphosis, Fatty
Mammary gland		Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
		Cytoplasmic Change, Nos
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Skin		Squamous Cell Papilloma
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_122

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Inflammation, Chronic Focal
		Perivascular Cuffing
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Prostate		Inflammation, Active Chronic
Spleen		Hematopoiesis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_123

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos Myocardium Nos	Fibrosis Mineralization
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Cytoplasmic Change, Basophilic Hyperplasia, Nos
Lung		C-Cell Carcinoma, Metastatic
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Inflammation, Necrotizing
Prostate		Inflammation, Active Chronic
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_124

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Cortex Nos

Hyperplasia, Focal

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Lung

Perivascular Cuffing

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_125

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Eye

Heart

Kidney

Liver

Preputial gland

Prostate

Stomach

Testis

Unspecified

Retina

Myocardium Nos

Periportal Bile Ductule

Glandular Stomach

Adipose Tissue

Hyperplasia, Nos

Atrophy, Nos

Fibrosis

Nephropathy

Hyperplasia, Nos

Adenoma, Nos

Inflammation, Active Chronic

Cyst, Multiple

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_126

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Portal Vein	Thrombus, Organized
Bone marrow		Fibrosis, Myelo
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Necrosis, Coagulative
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Intermedia	Angiectasis
Prostate		Inflammation, Active Chronic
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Adrenal gland

Cortex Nos

Angiectasis

Heart

Cortex Nos

Hyperplasia, Focal

Myocardium Nos

Fibrosis

Myocardium Nos

Mineralization

Kidney

Nephropathy

Liver

Angiectasis

Clear-Cell Change

Cytoplasmic Change, Basophilic

Hepatocytes

Cytoplasmic Vacuolization

Periportal Bile Ductule

Hyperplasia, Nos

Prostate

Inflammation, Active Chronic

Stomach

Glandular Stomach

Cyst, Multiple

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_128

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Preputial gland		Inflammation, Active Chronic
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_129

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Periportal Bile Ductule

Hyperplasia, Nos

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_130

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Neuroblastoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy Pigmentation, Nos
Liver	Periportal Bile Ductule Centrilobular	Cytoplasmic Change, Basophilic Hyperplasia, Nos Metamorphosis, Fatty
Spleen		Hematopoiesis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos Multiple Organs Nos	Leukemia, Mononuclear Cell Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_131

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Lung	Alveoli	Distention
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen		Fibrosis
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Skin		Basal-Cell Tumor
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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	Angiectasis
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Clear-Cell Change
	Periportal Bile Ductule	Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor
		Follicular-Cell Carcinoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_134

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Ground-Glass
		Hyperplasia, Focal
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Hyperplasia, Alveolar Epithelium
Pancreas	Acinus	Atrophy, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Cyst, Epidermal Inclusion
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_135

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Eye	Retina	Atrophy, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pancreas		Lymphangiectasis
Prostate		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_136

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
Preputial gland		Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_137

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung	Alveoli	Edema, Nos
	Alveoli	Hemorrhage
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_138

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Necrosis, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
		Necrosis, Coagulative
Lung	Alveoli	Edema, Nos
Prostate		Distention
		Inflammation, Active Chronic
Spleen	Capsule	Fibrosis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_139

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Adipose Tissue	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_140

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Bone marrow

Hyperplasia, Nos

Heart

Myocardium Nos

Degeneration, Nos

Myocardium Nos

Fibrosis

Myocardium Nos

Inflammation, Chronic

Kidney

Nephropathy

Liver

Angiectasis

Periportal Bile Ductule

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Testis

Atrophy, Nos

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_141

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Chronic
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Cytoplasmic Change, Nos
	Periportal Bile Ductule	Hyperplasia, Nos
Lung		Perivascular Cuffing
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hemosiderosis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tunica Albuginea	Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_142

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Nephropathy
Liver		Angiectasis
	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Intermedia	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Hemorrhage
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_143

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Spleen		Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Interstitial-Cell Tumor
Thymus		Thymoma, Benign
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Adrenal gland

Cortex Nos

Angiectasis

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Myocardium Nos

Inflammation, Chronic

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Granuloma, Nos

Periportal Bile Ductule

Hyperplasia, Nos

Prostate

Inflammation, Active Chronic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_145

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Liver	Periportal Bile Ductule	Hyperplasia, Nos
Lung	Alveoli	Edema, Nos Hemorrhage
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Atrophy, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thymus		Hemorrhage
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Kidney

Myocardium Nos

Inflammation, Chronic

Liver

Nephropathy

Clear-Cell Change

Pancreas

Periportal Bile Ductule

Cytoplasmic Change, Basophilic

Pituitary gland

Acinus

Hyperplasia, Nos

Testis

Intermedia

Atrophy, Nos

Cyst, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Bone marrow		Fibrosis, Myelo
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Lipoma
		Nephropathy
Liver		Clear-Cell Change
	Periportal Bile Ductule	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hemorrhage
	Mandibular Lymph Node	Lymphangiectasis
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

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

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Periportal Bile Ductule	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Spleen		Fibrosis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Cyst, Epidermal Inclusion
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_149

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Eosinophilic
	Periportal Bile Ductule	Hyperplasia, Nos
		Neoplastic Nodule
Pituitary gland	Intermedia	Angiectasis
	Anterior Pituitary	Hyperplasia, Atypical
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach	Cyst, Multiple
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: C55652

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:43:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_150

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
	Periportal Bile Ductule	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hematopoiesis
Stomach	Glandular Stomach	Cyst, Multiple
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE