

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

C Number: C55936

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Female

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_001

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Clitoral gland

Cortex Nos
Pulmonary Artery Nos

Hyperplasia, Focal
Mineralization
Atrophy, Nos
Tissue Examined

Kidney
Liver

Hepatocytes
Hepatocytes

Nephropathy
Clear-Cell Change
Cytoplasmic Change, Basophilic
Hematopoiesis

Lung
Mammary gland

Bile Duct

Hyperplasia, Focal
Alveolar Macrophages
Fibroadenoma
Hyperplasia, Cystic

Pancreas
Pituitary gland
Stomach
Thyroid

Acinus
Anterior Pituitary
Forestomach

Atrophy, Focal
Hyperplasia, Focal
Hyperplasia, Epithelial
Follicular-Cell Adenoma
Hyperplasia, C Cell
Hydrometra

Uterus

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_002

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Medulla	Pheochromocytoma
Clitoral gland		Atrophy, Nos
		Inflammation, Suppurative
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Mineralization
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Oral mucosa	Palate Nos	Hyperplasia, Epithelial
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Hyperplasia, Intraductal
Stomach	Forestomach	Cyst, Nos
	Forestomach	Hyperplasia, Epithelial
	Glandular Stomach	Ulcer, Nos
Thymus		Cyst, Nos
		Involution, Nos
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_003

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lymph node	Renal Lymph Node	Edema, Nos
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Squamous Cell Papilloma
	Forestomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_004

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
	Cortex Nos	Hyperplasia, Focal
Bone	Sternum	Osteosclerosis
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Stomach	Forestomach	Fibrosis
	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Abdominal Cavity	Necrosis, Fat
Uterus		Endometrial Stromal Polyp
		Hemorrhage

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_005

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_006

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Adenoma, Nos
		Atrophy, Nos
		Inflammation, Suppurative
Kidney		Tissue Examined
		Mineralization
		Nephropathy
Liver		Pigmentation, Nos
	Hepatocytes	Abnormal Curvature
		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Peliosis Hepatis
		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Hemorrhage
Mammary gland		Cyst, Nos
		Fibroadenoma
		Hyperplasia, Cystic
Nasal cavity		Hemorrhage
		Inflammation, Acute Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Atrophy, Focal
Spleen		Hyperplasia, Lymphoid
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_007

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Hemorrhage
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Involution, Nos
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_008

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cyst, Nos
	Medulla	Hyperplasia, Focal
Clitoral gland		Adenoma, Nos
		Atrophy, Nos
		Tissue Examined
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Alveolar/Bronchiolar Adenoma
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
Unspecified	Abdominal Cavity	Necrosis, Fat
Uterus	Cervix Uteri	Cyst, Epidermal Inclusion
	Cervix Uteri	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_009

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Hemorrhage Hyperplasia, Focal Pheochromocytoma
Clitoral gland		Atrophy, Nos Hyperplasia, Nos Tissue Examined
Heart		Neurilemoma
Intestine Large	Atrium	Thrombosis, Nos
Kidney	Colon	Parasitism
Liver	Hepatocytes	Nephropathy Cytoplasmic Change, Basophilic Hematopoiesis
Pituitary gland	Anterior Pituitary	Cyst, Nos
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
Uterus		Cyst, Nos Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_010

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Clitoral gland

Cortex Nos

Hyperplasia, Focal
Atrophy, Nos
Inflammation, Chronic
Tissue Examined

Heart
Intestine Large
Kidney
Liver

Colon

Inflammation, Chronic Focal
Parasitism
Nephropathy
Congestion, Nos

Mammary gland

Bile Duct

Hyperplasia, Focal
Hyperplasia, Cystic

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Thymus

Involution, Nos

Thyroid

Hyperplasia, C Cell

Uterus

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_011

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Adenoma, Nos
		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
Liver		Abnormal Curvature
	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Retropharyngeal Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
		Galactocele
		Hyperplasia, Cystic
Nasal cavity		Inflammation, Acute Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Hematopoiesis
Thymus		Involution, Nos
Unspecified	Abdominal Cavity	Necrosis, Fat
Uterus	Endometrium	Hyperplasia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Clitoral gland

Cortex Nos

Cyst, Nos
Atrophy, Nos
Hyperplasia, Nos

Harderian gland
Heart
Kidney

Hardarian Gland

Tissue Examined
Pigmentation, Nos
Inflammation, Chronic Focal
Nephropathy

Liver

Bile Duct

Pigmentation, Nos
Hyperplasia, Focal
Necrosis, Focal

Lung
Mammary gland

Alveolar Macrophages
Carcinoma, Nos
Fibroadenoma
Galactocele

Ovary
Pituitary gland
Stomach

Anterior Pituitary
Forestomach
Glandular Stomach

Hyperplasia, Cystic
Granulosa-Cell Carcinoma
Adenoma, Nos
Hyperplasia, Epithelial
Ulcer, Nos

Thymus
Unspecified

Abdominal Cavity
Multiple Organs Nos
Abdominal Cavity
Abdominal Cavity

Involution, Nos
Inflammation, Chronic Focal
Leukemia, Mononuclear Cell
Necrosis, Fat
Sarcoma, Nos

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_013

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Atrophy, Diffuse
	Cortex Nos	Pigmentation, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hydrocephalus, Nos
	Meninges	Hyperplasia, Nos
Clitoral gland		Atrophy, Nos
		Inflammation, Suppurative
		Tissue Examined
Heart	Atrium	Fibrosis, Focal
		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Cyst, Nos
Mammary gland		Hyperplasia, Cystic
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Inflammation, Chronic Focal
Stomach	Forestomach	Hyperplasia, Epithelial
	Glandular Stomach	Inflammation, Chronic Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_014

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Granulocytic
Clitoral gland		Atrophy, Nos
		Hyperplasia, Nos
		Inflammation, Suppurative
		Tissue Examined
Eye	Nasolacrimal Duct	Inflammation, Acute Focal
Heart		Fibrosis
		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver		Abnormal Curvature
	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lymph node	Mesenteric Lymph Node	Edema, Nos
	Bronchial Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Thoracic Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Hematopoiesis
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_015

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Focal Cellular Change
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Atrophy, Focal
Spleen		Hematopoiesis
Thymus		Involution, Nos
Uterus		Endometrial Stromal Polyp
		Hydrometra

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_016

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Nos
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_017

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Nasolacrimal Duct	Inflammation, Acute Focal
Heart		Inflammation, Chronic Focal
	Atrium	Thrombosis, Nos
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Mesenteric Lymph Node	Congestion, Nos
Nasal cavity		Hemorrhage
Pancreas		Inflammation, Chronic Focal
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Edema, Nos
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic Focal
	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_018

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
Lung		Alveolar Macrophages
		Hyperplasia, Alveolar Epithelium
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Cyst, Nos
Spleen		Hematopoiesis
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Uterus		Endometrial Stromal Polyp
		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_019

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
Brain		Hemorrhage
		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Hyperplasia, Nos
		Tissue Examined
Eye	Nasolacrimal Duct	Inflammation, Acute Focal
Heart		Inflammation, Chronic Focal
Kidney		Congestion, Nos
		Nephropathy
Liver		Congestion, Nos
	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
		Necrosis, Focal
Lung		Congestion, Nos
Lymph node	Mandibular Lymph Node	Hemorrhage
Mammary gland		Hyperplasia, Cystic
Ovary		Congestion, Nos
Pancreas		Hemorrhage
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Inflammation, Chronic Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Hemorrhage
		Involution, Nos
Unspecified	Abdominal Cavity	Inflammation, Chronic Focal
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_020

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hemorrhage
		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Nasolacrimal Duct	Hemorrhage
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Hemorrhage
Mammary gland		Hyperplasia, Cystic
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Trachea	Submucosa	Inflammation, Chronic Focal
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_021

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hemorrhage
		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney	Tubule	Necrosis, Focal
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
		Inflammation, Chronic Focal
Lung		Congestion, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Involution, Nos
Thyroid		Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_022	TRT#: 1 DOSE: 700 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: HISTO:
OBSERVATIONS			
Adrenal gland	Cortex Nos	Focal Cellular Change	
	Cortex Nos	Hyperplasia, Focal	
Clitoral gland		Cyst, Nos	
		Inflammation, Suppurative	
		Tissue Examined	
Heart		Inflammation, Chronic Focal	
Intestine Large	Colon	Parasitism	
Kidney	Pelvis	Dilatation, Nos	
		Nephropathy	
		Pigmentation, Nos	
Liver	Hepatocytes	Clear-Cell Change	
	Hepatocytes	Cytoplasmic Change, Basophilic	
	Bile Duct	Hyperplasia, Focal	
		Inflammation, Chronic Focal	
Lymph node	Renal Lymph Node	Edema, Nos	
Mammary gland		Hyperplasia, Cystic	
Pancreas	Acinus	Atrophy, Focal	
Pituitary gland	Anterior Pituitary	Adenoma, Nos	
Thymus		Involution, Nos	
Thyroid		Hyperplasia, C Cell	
Unspecified	Abdominal Cavity	Inflammation, Chronic Focal	
Uterus		Atrophy, Focal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furosemide
CAS Number: 54-31-9

Date Report Requested: 10/26/2014
Time Report Requested: 11:59:48
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_023

TRT#: 1
DOSE: 700 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland Clitoral gland	Cortex Nos	Focal Cellular Change Adenoma, Nos Atrophy, Nos Tissue Examined
Heart Kidney		Inflammation, Chronic Focal Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic Inflammation, Chronic Focal
Lung		Alveolar Macrophages Hyperplasia, Alveolar Epithelium
Mammary gland		Fibroadenoma Hyperplasia, Cystic
Pituitary gland Salivary gland	Anterior Pituitary	Hyperplasia, Focal Atrophy, Focal
Thymus Thyroid		Involution, Nos Hyperplasia, C Cell
Unspecified Uterus	Abdominal Cavity	Necrosis, Fat Endometrial Stromal Polyp Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_024

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
		Alveolar/Bronchiolar Adenoma
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Hyperplasia, Intraductal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_025

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cyst, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Hyperplasia, Nos
		Inflammation, Chronic
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
	Rectum	Parasitism
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Inflammation, Chronic Focal
Mammary gland		Carcinoma, Nos
		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Cyst, Nos
Spleen		Hematopoiesis
Stomach	Forestomach	Hyperplasia, Epithelial
	Glandular Stomach	Inflammation, Chronic Focal
	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_026

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Adenoma, Nos
		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Rectum	Parasitism
Kidney	Pelvis	Hyperplasia, Epithelial
		Mineralization
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
		Necrosis, Focal
Lung		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Nasal cavity		Inflammation, Acute Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Hyperplasia, Focal
Spleen		Hematopoiesis
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
		Cyst, Follicular Nos
		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_027

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Spleen		Congestion, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_028

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hemorrhage
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Necrosis, Focal
Lung		Alveolar/Bronchiolar Adenoma
Lymph node	Mandibular Lymph Node	Hemorrhage
	Thoracic Lymph Node	Hyperplasia, Reticulum Cell
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_029

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
Lung		Alveolar Macrophages
		Alveolar/Bronchiolar Adenoma
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Lymphoid
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Retina	Atrophy, Focal
Heart		Inflammation, Chronic Focal
Kidney	Pelvis	Hyperplasia, Epithelial
		Nephropathy
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_031

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
	Cortex Nos	Focal Cellular Change
Clitoral gland		Atrophy, Nos
		Tissue Examined
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mesenteric Lymph Node	Edema, Nos
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Nos
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_032

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hemorrhage
		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Inflammation, Suppurative
		Tissue Examined
Heart		Hypertrophy, Focal
		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
	Bile Duct	Pigmentation, Nos
Lung		Alveolar Macrophages
		Congestion, Nos
Lymph node	Mesenteric Lymph Node	Congestion, Nos
	Mesenteric Lymph Node	Edema, Nos
	Thoracic Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_033

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Clitoral gland

Cortex Nos
Pulmonary Artery Nos

Hyperplasia, Focal
Mineralization
Adenoma, Nos
Atrophy, Nos
Inflammation, Chronic
Tissue Examined

Heart
Intestine Large
Kidney

Colon

Inflammation, Chronic Focal
Parasitism
Mineralization
Nephropathy

Liver

Hepatocytes

Cytoplasmic Change, Basophilic
Inflammation, Chronic Focal

Pancreas
Pituitary gland

Acinus
Anterior Pituitary
Anterior Pituitary

Atrophy, Focal
Cyst, Nos
Hyperplasia, Focal

Stomach
Thymus
Uterus

Forestomach

Hyperplasia, Epithelial
Involution, Nos
Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_034

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Necrosis, Focal
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver		Abnormal Curvature
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Necrosis, Focal
Lung		Alveolar Macrophages
		Congestion, Nos
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Hematopoiesis
Stomach	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
Unspecified	Abdominal Cavity	Necrosis, Fat
Uterus	Cervix Uteri	Dilatation, Nos
		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_035

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Cortex Nos	Cyst, Nos Degeneration, Nos Focal Cellular Change
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Hyperplasia, Granulocytic
Clitoral gland		Adenoma, Nos Atrophy, Nos Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization Nephropathy
Liver	Hepatocytes Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Focal Inflammation, Chronic Focal
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Fibroadenoma Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Hyperplasia, Intraductal
Spleen		Hematopoiesis
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:48

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_036

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Clitoral gland

Cortex Nos

Hyperplasia, Focal
Atrophy, Nos
Inflammation, Suppurative
Tissue Examined

Kidney
Liver

Hepatocytes
Bile Duct

Nephropathy
Cytoplasmic Change, Basophilic
Hyperplasia, Focal
Inflammation, Chronic Focal

Lung
Lymph node
Mammary gland

Mesenteric Lymph Node

Alveolar Macrophages
Edema, Nos
Hyperplasia, Cystic

Pancreas
Pituitary gland

Acinus
Anterior Pituitary
Anterior Pituitary

Focal Cellular Change
Hyperplasia, Focal
Pigmentation, Nos

Salivary gland
Thymus
Thyroid
Uterus

Inflammation, Chronic Focal
Involution, Nos
Hyperplasia, C Cell
Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Hyperplasia, Reticulum Cell
Brain		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
		Pigmentation, Nos
Lung		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Hemorrhage
	Mandibular Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Cystic
Nasal cavity		Hemorrhage
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Trachea	Submucosa	Inflammation, Chronic Focal
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_038

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Retina	Atrophy, Diffuse
	Retina	Atrophy, Focal
	Crystalline Lens	Degeneration, Nos
Kidney		Cyst, Nos
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Stomach	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_039

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Hemorrhage
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Focal Cellular Change
Thymus		Involution, Nos
Unspecified	Abdominal Cavity	Necrosis, Fat
Uterus	Cervix Uteri	Cyst, Epidermal Inclusion
	Cervix Uteri	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_040

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Mineralization
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Degeneration, Nos
Heart		Inflammation, Chronic Focal
Intestine Large	Rectum	Parasitism
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Intermedia	Cyst, Nos
	Anterior Pituitary	Hemorrhage
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_041

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Clitoral gland		Adenoma, Nos
		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Hematopoiesis
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Nasal cavity		Inflammation, Acute Focal
Pituitary gland	Anterior Pituitary	Atrophy, Nos
	Anterior Pituitary	Hemorrhage
	Anterior Pituitary	Pigmentation, Nos
Salivary gland		Focal Cellular Change
		Hyperplasia, Epithelial
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp
		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_042

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Cyst, Nos
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Hemorrhage
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Nos
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Cyst, Follicular Nos
		Hyperplasia, C Cell
Uterus	Cervix Uteri	Cyst, Epidermal Inclusion
		Endometrial Stromal Polyp
		Hydrometra
	Cervix Uteri	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_043

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Rectum	Parasitism
Kidney	Pelvis	Dilatation, Nos
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Necrosis, Focal
Mammary gland		Adenoma, Nos
		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_044

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Clitoral gland

Medulla

Pheochromocytoma

Adenoma, Nos

Atrophy, Nos

Tissue Examined

Heart
Kidney

Inflammation, Chronic Focal

Nephropathy

Pigmentation, Nos

Liver

Hepatocytes

Cytoplasmic Change, Basophilic

Hepatocytes

Cytoplasmic Vacuolization

Bile Duct

Hyperplasia, Focal

Mammary gland

Hyperplasia, Cystic

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Spleen

Atrophy, Focal

Stomach

Forestomach

Hyperplasia, Epithelial

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_045

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Tissue Not Examined
Heart		Inflammation, Chronic Focal
Kidney	Tubule	Necrosis, Focal Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_046

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Atrophy, Nos
		Hyperplasia, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
Uterus	Endometrium	Adenocarcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_047

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Mineralization
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_048

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Renal Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Nos
		Granulosa-Cell Carcinoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Focal Cellular Change
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_049

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
	Cortex Nos	Focal Cellular Change
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Nasal cavity		Inflammation, Acute Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_050

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
	Cortex Nos	Focal Cellular Change
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hematopoiesis
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Cecum, Colon	Hemorrhage
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Congestion, Nos
		Hemorrhage
Lymph node	Mesenteric Lymph Node	Edema, Nos
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Salivary gland		Inflammation, Chronic Focal
Spleen		Congestion, Nos
Thymus		Involution, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Kidney

Liver

Mammary gland

Pituitary gland

Uterus

Hepatocytes

Anterior Pituitary

Tissue Not Examined

Nephropathy

Cytoplasmic Change, Basophilic

Inflammation, Chronic Focal

Fibroadenoma

Cyst, Nos

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Cystic
Nasal cavity		Hemorrhage
Stomach	Forestomach	Edema, Nos
	Forestomach	Ulcer, Nos
	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp
		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Adenoma, Nos

Atrophy, Nos

Kidney

Tissue Examined

Nephropathy

Liver

Hepatocytes

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Inflammation, Chronic Focal

Thyroid

Adenoma, Nos

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Adenoma, Nos

Liver

Atrophy, Nos

Tissue Examined

Abnormal Curvature

Hepatocytes

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Cyst, Nos

Anterior Pituitary

Hyperplasia, Focal

Skin

Face

Squamous Cell Carcinoma

Thyroid

C-Cell Adenoma

Uterus

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Congestion, Nos

Clitoral gland

Tissue Not Examined

Kidney

Pelvis

Inflammation, Suppurative

Mineralization

Lung

Congestion, Nos

Pituitary gland

Anterior Pituitary

Congestion, Nos

Ureter

Dilatation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney	Tubule	Necrosis, Focal
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Edema, Nos
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Ulcer, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
Mammary gland		Fibroadenoma
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Skin		Keratoacanthoma
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Ulcer, Nos
	Glandular Stomach	Ulcer, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Clitoral gland

Pulmonary Artery Nos

Mineralization

Adenoma, Nos

Atrophy, Nos

Tissue Examined

Liver

Hepatocytes

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Lung

Inflammation, Chronic Focal

Mammary gland

Fibroadenoma

Hyperplasia, Cystic

Pituitary gland

Anterior Pituitary

Cyst, Nos

Thyroid

Hyperplasia, C Cell

Uterus

Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Oral mucosa	Palate Nos	Hyperplasia, Epithelial
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hematopoiesis
Stomach	Forestomach	Edema, Nos
	Forestomach	Hyperplasia, Epithelial
Uterus	Endometrium	Hyperplasia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Adenoma, Nos

Liver

Hepatocytes

Atrophy, Nos

Tissue Examined

Mammary gland

Cytoplasmic Change, Basophilic

Inflammation, Chronic Focal

Pituitary gland

Anterior Pituitary

Carcinoma, Nos

Fibroadenoma

Thyroid

Hyperplasia, Focal

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Liver

Hepatocytes

Tissue Examined

Mammary gland

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Inflammation, Chronic Diffuse

Thyroid

Carcinoma, Nos

Unspecified

Abdominal Cavity

Cyst, Nos

Uterus

C-Cell Adenoma

Hyperplasia, C Cell

Necrosis, Fat

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland Clitoral gland	Cortex Nos	Hyperplasia, Focal Atrophy, Nos Hyperplasia, Nos Inflammation, Suppurative Tissue Examined
Kidney		Nephropathy Pigmentation, Nos
Liver	Hepatocytes Bile Duct	Cytoplasmic Vacuolization Hyperplasia, Focal Necrosis, Focal Fibroadenoma
Mammary gland Pituitary gland Spleen Thymus Thyroid	Anterior Pituitary	Angiectasis Infarct, Nos Involution, Nos C-Cell Adenoma Hyperplasia, C Cell
Unspecified	Multiple Organs Nos Tail	Hematopoiesis Necrosis, Diffuse

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Clitoral gland

Cortex Nos

Degeneration, Nos

Atrophy, Nos

Tissue Examined

Kidney

Nephropathy

Liver

Hepatocytes

Cytoplasmic Vacuolization

Pituitary gland

Anterior Pituitary

Cyst, Nos

Stomach

Forestomach

Ulcer, Nos

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel
Clitoral gland

Pulmonary Artery Nos

Mineralization
Atrophy, Nos
Tissue Examined
Inflammation, Chronic Focal

Heart
Intestine Large
Kidney
Liver

Colon
Tubule
Bile Duct

Parasitism
Necrosis, Focal
Hyperplasia, Focal
Inflammation, Chronic Focal
Congestion, Nos
Involution, Nos
Endometrial Stromal Polyp

Lung
Thymus
Uterus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Kidney

Tissue Examined

Liver

Hepatocytes

Nephropathy

Pituitary gland

Anterior Pituitary

Cytoplasmic Change, Basophilic

Thyroid

Inflammation, Chronic Focal

Adenoma, Nos

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Kidney

Tissue Examined

Liver

Hepatocytes

Nephropathy

Hepatocytes

Clear-Cell Change

Bile Duct

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Inflammation, Chronic Focal

Mammary gland

Fibroadenoma

Ovary

Cyst, Nos

Parathyroid gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Thymus

Involution, Nos

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel
Clitoral gland

Pulmonary Artery Nos

Mineralization
Atrophy, Nos
Tissue Examined
Inflammation, Chronic Focal

Heart
Kidney
Liver

Hepatocytes

Nephropathy
Cytoplasmic Vacuolization
Necrosis, Focal

Mammary gland
Pituitary gland
Thyroid
Unspecified
Uterus

Anterior Pituitary

Hyperplasia, Cystic
Hyperplasia, Focal
Hyperplasia, C Cell
Leukemia, Mononuclear Cell
Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Adenoma, Nos

Eye

Atrophy, Nos

Harderian gland

Retina

Tissue Examined

Kidney

Harderian Gland

Atrophy, Focal

Liver

Inflammation, Chronic Focal

Hepatocytes

Nephropathy

Lymph node

Abnormal Curvature

Inguinal Lymph Node

Cytoplasmic Change, Basophilic

Mammary gland

Inguinal Lymph Node

Inflammation, Chronic Focal

Ovary

Cyst, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Plasma Cell

Fibroadenoma

Cyst, Nos

Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland		Atrophy, Nos
		Tissue Examined
Intestine Large	Cecum, Colon	Hemorrhage
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Hematopoiesis
Mammary gland		Fibroadenoma
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Skin	Ear	Squamous Cell Carcinoma
Spleen		Hematopoiesis
Unspecified		Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Kidney

Tissue Examined

Liver

Hepatocytes

Nephropathy

Bile Duct

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Inflammation, Chronic Focal

Necrosis, Focal

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Anterior Pituitary

Hyperplasia, Focal

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Adenoma, Nos

Atrophy, Nos

Tissue Examined

Intestine Small

Mesentery Nos

Periarteritis

Liver

Hepatocytes

Cytoplasmic Change, Basophilic

Inflammation, Chronic Focal

Mammary gland

Fibroadenoma

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Thyroid

Cyst, Nos

Unspecified

Mediastinum Nos

Periarteritis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Kidney

Tissue Examined

Liver

Hepatocytes

Nephropathy

Hepatocytes

Clear-Cell Change

Bile Duct

Cytoplasmic Change, Basophilic

Anterior Pituitary

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Cyst, Nos

Thymus

Involution, Nos

Unspecified

Abdominal Cavity

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Meninges	Congestion, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Adenoma, Nos

Liver

Tissue Examined

Mammary gland

Hepatocytes

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Fibroadenoma

Thyroid

Cyst, Nos

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain		Astrocytoma
Clitoral gland		Atrophy, Nos
		Hyperplasia, Nos
		Tissue Examined
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Intestine Large	Cecum, Colon	Mineralization
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus	Cervix Uteri	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Kidney

Tissue Examined

Hemorrhage

Liver

Nephropathy

Hematopoiesis

Bile Duct

Hyperplasia, Focal

Mammary gland

Hyperplasia, Cystic

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Thyroid

Hyperplasia, C Cell

Uterus

Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Eye

Retina

Tissue Examined

Crystalline Lens

Atrophy, Diffuse

Anterior Chamber

Degeneration, Nos

Heart

Hemorrhage

Liver

Hepatocytes

Inflammation, Chronic Focal

Bile Duct

Cytoplasmic Change, Basophilic

Mammary gland

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Peliosis Hepatis

Thyroid

Fibroadenoma

Hyperplasia, Focal

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Clitoral gland

Pulmonary Artery Nos

Mineralization
Atrophy, Nos
Inflammation, Chronic Focal
Tissue Examined

Kidney

Mineralization
Nephropathy

Liver

Hepatocytes
Bile Duct

Cytoplasmic Change, Basophilic
Hyperplasia, Focal
Inflammation, Chronic Focal

Lung

Congestion, Nos

Lymph node

Mesenteric Lymph Node

Edema, Nos

Mammary gland

Fibroadenoma

Pituitary gland

Anterior Pituitary
Anterior Pituitary

Cyst, Nos
Hyperplasia, Focal

Thymus

Involution, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Pigmentation, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
		Necrosis, Focal
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hematopoiesis
Stomach	Forestomach	Hyperplasia, Epithelial
	Glandular Stomach	Inflammation, Chronic Focal
Thyroid		Hyperplasia, C Cell
Unspecified	Chest	Fibroma
Uterus		Endometrial Stromal Polyp
		Hydrometra
		Hypoplasia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Gliosis
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Nasolacrimal Duct	Inflammation, Chronic Focal
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Spleen		Necrosis, Focal
Stomach	Forestomach	Edema, Nos
	Forestomach	Ulcer, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cyst, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Thoracic Lymph Node	Pigmentation, Nos
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Unspecified	Neck	Crystals, Nos
	Neck	Hemorrhage
	Abdominal Cavity	Inflammation, Chronic Focal
	Groin	Inflammation, Chronic Focal
	Chest	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Congestion, Nos
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Adenoma, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
		Pigmentation, Nos
Lung		Hemorrhage
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Tissue Not Examined
Eye	Lacrimal Gland	Pigmentation, Nos
Heart	Atrium	Thrombosis, Nos
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Hemorrhage
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Congestion, Nos

Clitoral gland

Cortex Nos

Hyperplasia, Focal

Kidney

Adenoma, Nos

Atrophy, Nos

Tissue Examined

Liver

Hepatocytes

Nephropathy

Hepatocytes

Clear-Cell Change

Bile Duct

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Lymph node

Renal Lymph Node

Inflammation, Chronic Focal

Pituitary gland

Anterior Pituitary

Congestion, Nos

Thymus

Anterior Pituitary

Adenoma, Nos

Cyst, Nos

Involution, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Liver

Hepatocytes

Tissue Examined

Hepatocytes

Clear-Cell Change

Cytoplasmic Change, Basophilic

Inflammation, Chronic Focal

Necrosis, Focal

Mammary gland

Fibroadenoma

Pituitary gland

Anterior Pituitary

Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hemorrhage
Clitoral gland		Atrophy, Nos
		Tissue Examined
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Intermedia	Angiectasis
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Cyst, Nos
		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Adenoma, Nos
		Atrophy, Nos
		Tissue Examined
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Pigmentation, Nos
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Hemorrhage
	Abdominal Cavity	Necrosis, Fat
Uterus	Cervix Uteri	Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland		Atrophy, Nos Inflammation, Chronic Focal Tissue Examined
Eye	Retina Crystalline Lens Sclera	Atrophy, Diffuse Degeneration, Nos Mineralization
Harderian gland	Harderian Gland	Inflammation, Chronic Focal
Kidney		Nephropathy Pigmentation, Nos
Liver	Hepatocytes Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Focal
Lymph node	Mesenteric Lymph Node	Congestion, Nos
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen		Atrophy, Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Hematopoiesis
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Heart

Hyperplasia, Nos

Kidney

Tissue Examined

Liver

Inflammation, Chronic Focal

Lung

Mineralization

Lymph node

Mesenteric Lymph Node

Nephropathy

Mammary gland

Inflammation, Chronic Focal

Pituitary gland

Alveolar/Bronchiolar Adenoma

Uterus

Pigmentation, Nos

Anterior Pituitary

Edema, Nos

Intermedia

Fibroadenoma

Cervix Uteri

Cyst, Nos

Cervix Uteri

Cyst, Nos

Cyst, Epidermal Inclusion

Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Liver

Hepatocytes

Hyperplasia, Nos

Tissue Examined

Mammary gland

Cytoplasmic Change, Basophilic

Inflammation, Chronic Focal

Pituitary gland

Anterior Pituitary

Carcinoma, Nos

Fibroadenoma

Spleen

Hyperplasia, Focal

Carcinoma, Nos, Metastatic

Uterus

Hematopoiesis

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
Clitoral gland		Tissue Not Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Necrosis, Focal
Lung		Edema, Nos
		Hemorrhage
Lymph node	Mesenteric Lymph Node	Hemorrhage
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp
		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Kidney

Liver

Hepatocytes

Hepatocytes

Bile Duct

Mammary gland

Pituitary gland

Anterior Pituitary

Spleen

Thyroid

Uterus

Tissue Not Examined

Nephropathy

Clear-Cell Change

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Fibroadenoma

Hyperplasia, Cystic

Hyperplasia, Focal

Atrophy, Focal

C-Cell Adenoma

Hyperplasia, C Cell

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_046

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Clitoral gland

Cortex Nos
Pulmonary Artery Nos

Hyperplasia, Focal
Mineralization
Atrophy, Nos
Tissue Examined

Kidney

Mineralization
Nephropathy

Liver

Bile Duct

Hematopoiesis
Hyperplasia, Focal
Inflammation, Chronic Focal
Pigmentation, Nos

Lung

Pituitary gland

Anterior Pituitary
Anterior Pituitary

Cyst, Nos
Hyperplasia, Focal

Thymus

Unspecified

Mediastinum Nos

Involution, Nos
Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Liver

Hyperplasia, Nos

Tissue Examined

Angiectasis

Hepatocytes

Cytoplasmic Change, Basophilic

Hepatocytes

Cytoplasmic Vacuolization

Bile Duct

Hyperplasia, Focal

Necrosis, Focal

Mammary gland

Fibroadenoma

Hyperplasia, Cystic

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Vagina

Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Kidney

Tissue Examined

Liver

Hepatocytes

Nephropathy

Lung

Cytoplasmic Change, Basophilic

Mammary gland

Bile Duct

Hyperplasia, Focal

Ovary

Pigmentation, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Cystic

Thyroid

Cyst, Nos

Adenoma, Nos

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland

Atrophy, Nos

Intestine Large

Cecum, Colon

Tissue Examined

Kidney

Edema, Nos

Liver

Hepatocytes

Nephropathy

Mammary gland

Pigmentation, Nos

Pituitary gland

Cytoplasmic Vacuolization

Unspecified

Anterior Pituitary

Fibroadenoma

Multiple Organs Nos

Cyst, Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 350 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Degeneration, Nos
	Sclera	Mineralization
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Necrosis, Focal
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Oral mucosa	Palate Nos	Cyst, Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_001

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Clitoral gland

Cortex Nos

Hyperplasia, Focal
Atrophy, Nos
Inflammation, Suppurative
Tissue Examined

Kidney

Pelvis

Hyperplasia, Epithelial
Nephropathy

Liver

Hepatocytes

Cytoplasmic Change, Basophilic
Inflammation, Chronic Focal

Lymph node

Mandibular Lymph Node

Cyst, Nos

Mammary gland

Fibroadenoma

Pituitary gland

Anterior Pituitary

Hyperplasia, Cystic

Thymus

Cyst, Nos

Unspecified

Abdominal Cavity

Involution, Nos

Uterus

Necrosis, Fat

Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_002

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Granulocytic
Clitoral gland		Adenoma, Nos
		Tissue Examined
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Nos
		Granulosa-Cell Tumor
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hematopoiesis
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_003

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
Ovary		Cyst, Nos
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hematopoiesis
Thymus		Involution, Nos
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_004

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Clitoral gland

Cortex Nos

Hyperplasia, Focal
Atrophy, Nos
Inflammation, Suppurative
Tissue Examined

Heart
Intestine Large
Kidney

Colon

Inflammation, Chronic Focal
Parasitism
Mineralization
Nephropathy

Liver

Hepatocytes
Hepatocytes

Clear-Cell Change
Cytoplasmic Change, Basophilic
Inflammation, Chronic Focal

Lung

Alveolar Macrophages
Hyperplasia, Alveolar Epithelium

Mammary gland

Hyperplasia, Cystic

Ovary

Cyst, Nos

Pancreas

Acinus

Atrophy, Focal

Stomach

Forestomach

Hyperplasia, Epithelial

Thyroid

Hyperplasia, C Cell

Uterus

Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Adenoma, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney	Tubule	Necrosis, Focal
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_006

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Adenoma, Nos
Bone		Osteosclerosis
Brain		Astrocytoma
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Salivary gland		Hyperplasia, Intraductal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_007

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Clitoral gland

Cortex Nos
Pulmonary Artery Nos

Focal Cellular Change
Mineralization
Atrophy, Nos
Inflammation, Suppurative
Tissue Examined
Inflammation, Chronic Focal

Heart
Intestine Large
Kidney
Liver

Colon
Hepatocytes
Hepatocytes
Bile Duct

Parasitism
Nephropathy
Clear-Cell Change
Cytoplasmic Change, Basophilic
Hyperplasia, Focal
Fibroadenoma
Hyperplasia, Cystic

Mammary gland

Pituitary gland
Spleen
Thymus
Unspecified
Urinary bladder

Anterior Pituitary
Abdominal Cavity
Submucosa

Adenoma, Nos
Hyperplasia, Lymphoid
Involution, Nos
Necrosis, Fat
Inflammation, Chronic Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_008

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Inflammation, Chronic
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney	Pelvis	Dilatation, Nos
	Pelvis	Hyperplasia, Epithelial
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
		Peliosis Hepatis
Lung		Hyperplasia, Alveolar Epithelium
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Hyperplasia, Intraductal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Necrosis, Fat
Uterus		Cyst, Nos
		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_009

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
	Medulla	Hyperplasia, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Hyperplasia, Reticulum Cell
Clitoral gland		Atrophy, Nos
		Tissue Examined
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar/Bronchiolar Adenoma
		Hyperplasia, Alveolar Epithelium
Lymph node	Mesenteric Lymph Node	Edema, Nos
	Mandibular Lymph Node	Hemorrhage
Mammary gland		Hyperplasia, Cystic
Oral mucosa	Palate Nos	Hyperplasia, Epithelial
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_010

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Sclera	Mineralization
Heart		Inflammation, Chronic Focal
Kidney	Tubule	Mineralization
		Necrosis, Focal
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
		Hemorrhage
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Cyst, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Fibrosis
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Bone		Fibrous Osteodystrophy
Bone marrow		Fibrosis, Myelo
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Degeneration, Nos
	Crystalline Lens	Mineralization
	Lacrimal Gland	Pigmentation, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic Focal
Heart		Inflammation, Chronic Focal
Kidney	Pelvis	Dilatation, Nos
		Hyperplasia, Tubular Cell
		Hypertrophy, Compensatory
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Hemorrhage
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Spleen		Hematopoiesis
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Chronic Focal
	Forestomach	Ulcer, Nos
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Hydrometra

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_013

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Hyperplasia, Reticulum Cell
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver		Abnormal Curvature
	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Hyperplasia, Cystic
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hyperplasia, Lymphoid
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus	Cervix Uteri	Cyst, Epidermal Inclusion
		Cyst, Nos
		Endometrial Stromal Polyp
	Cervix Uteri	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_014

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Focal Cellular Change Hyperplasia, Nos
Bone marrow		Periarteritis
Clitoral gland		Atrophy, Nos
		Tissue Examined
Harderian gland	Hardarian Gland Hardarian Gland	Abscess, Nos Inflammation, Chronic Focal
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes Hepatocytes Bile Duct	Cytoplasmic Change, Basophilic Cytoplasmic Vacuolization Hyperplasia, Focal Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma Hyperplasia, Cystic
Pancreas	Acinus Islets	Atrophy, Focal Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Atrophy, Focal Hematopoiesis
Thyroid		Hyperplasia, C Cell
Unspecified	Mediastinum Nos	Periarteritis
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_015

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Clitoral gland

Cortex Nos
Pulmonary Artery Nos

Congestion, Nos
Mineralization
Atrophy, Nos
Tissue Examined

Heart
Intestine Large
Kidney

Colon

Hemorrhage
Parasitism
Nephropathy

Liver
Mammary gland

Bile Duct

Hyperplasia, Focal
Fibroadenoma

Pituitary gland

Anterior Pituitary

Cyst, Nos

Stomach

Forestomach

Hyperplasia, Epithelial

Thymus

Involution, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Abdominal Cavity

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone		Osteosclerosis
Brain	Meninges	Mineralization
		Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney	Pelvis	Dilatation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Ovary		Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_017

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone		Osteosclerosis
Brain	Optic Nerve	Atrophy, Nos
Clitoral gland		Cyst, Nos
		Inflammation, Suppurative
		Tissue Examined
Eye	Retina	Atrophy, Diffuse
	Retina	Atrophy, Focal
	Crystalline Lens	Degeneration, Nos
	Sclera	Mineralization
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Cyst, Nos
Thymus		Hyperplasia, Epithelial
		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp
		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Fibrosis, Myelo
Clitoral gland		Atrophy, Nos
		Inflammation, Suppurative
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Hyperplasia, Intraductal
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_019

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cortical Carcinoma

Blood vessel

Pulmonary Artery Nos

Hemorrhage

Clitoral gland

Mineralization

Atrophy, Nos

Cyst, Nos

Hyperplasia, Nos

Tissue Examined

Heart

Inflammation, Chronic Focal

Kidney

Nephropathy

Liver

Congestion, Nos

Hepatocytes

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Lung

Inflammation, Chronic Focal

Alveolar Macrophages

Ovary

Congestion, Nos

Congestion, Nos

Cyst, Nos

Pancreas

Edema, Nos

Inflammation, Chronic Focal

Pituitary gland

Anterior Pituitary

Cyst, Nos

Stomach

Forestomach

Hyperplasia, Epithelial

Thymus

Congestion, Nos

Involution, Nos

Uterus

Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cyst, Nos
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone marrow		Cyst, Nos
Clitoral gland		Atrophy, Nos
		Inflammation, Suppurative
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Cyst, Nos
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Mesenteric Lymph Node	Hemorrhage
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Intermedia	Cyst, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_021

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Bone		Osteosclerosis
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Inflammation, Chronic Focal
Oral mucosa	Palate Nos	Inflammation, Acute Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp
		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_022

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Cyst, Nos
	Mesenteric Lymph Node	Edema, Nos
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Carcinoma, Nos
		Fibroadenoma
		Hyperplasia, Cystic
Oral mucosa	Palate Nos	Hyperplasia, Epithelial
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hematopoiesis
		Necrosis, Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_023

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Brain		Hydrocephalus, Nos
		Periarteritis
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver		Cyst, Hemorrhagic
	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Mesenteric Lymph Node	Edema, Nos
	Thoracic Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Nasal cavity		Hemorrhage
		Inflammation, Acute Focal
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Inflammation, Chronic Focal
Thymus		Involution, Nos
Unspecified	Mediastinum Nos	Periarteritis
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_024

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Rectum	Parasitism
Kidney		Congestion, Nos
		Nephropathy
Larynx		Hemorrhage
Liver		Congestion, Nos
	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Congestion, Nos
		Hemorrhage
Ovary		Congestion, Nos
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Fibrosis, Focal
Thymus		Hemorrhage
		Involution, Nos
Thyroid		Follicular-Cell Adenoma
		Hemorrhage
Urinary bladder	Submucosa	Inflammation, Chronic Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_025

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Nasal cavity		Hemorrhage
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen		Hyperplasia, Lymphoid
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Necrosis, Fat
Uterus		Endometrial Stromal Polyp
		Hydrometra
	Endometrium	Hyperplasia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_026

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus	Cervix Uteri	Cyst, Epidermal Inclusion
		Endometrial Stromal Polyp
		Hydrometra
	Cervix Uteri	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_027

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
Brain		Hemorrhage
		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Nasolacrimal Duct	Inflammation, Acute Focal
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Spleen		Atrophy, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell
Tongue		Squamous Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Abdominal Cavity	Necrosis, Fat
Uterus		Endometrial Stromal Polyp
		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_028

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Hematopoiesis
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Necrosis, Fat
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_029

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Mesenteric Lymph Node	Hemorrhage
Mammary gland		Carcinoma, Nos
		Fibroadenoma
		Hyperplasia, Cystic
Ovary		Sertoli-Cell Tumor
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Involution, Nos
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_030

TRT#: 3

SEX: Female

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
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Retina	Atrophy, Focal
	Nasolacrimal Duct	Inflammation, Acute Focal
	Sclera	Mineralization
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Alveolar/Bronchiolar Adenoma
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Ovary		Cyst, Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_031

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Brain		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
	Bronchiole	Hyperplasia, Epithelial
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Involution, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_032

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Cyst, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
Lung		Alveolar Macrophages
Lymph node	Mesenteric Lymph Node	Hemorrhage
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Spleen		Hematopoiesis
Stomach	Forestomach	Hyperplasia, Epithelial
	Glandular Stomach	Ulcer, Nos
Thymus		Involution, Nos
Unspecified	Chest	Fibroma
	Abdomen	Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_033

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Cortex Nos	Hyperplasia, Focal
Bone		Osteosclerosis
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Cecum, Colon	Hemorrhage
Kidney		Mineralization
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Lymph node	Thoracic Lymph Node	Edema, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_034

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hemorrhage
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney	Tubule	Degeneration, Nos
		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
Lung		Congestion, Nos
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_035

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel
Clitoral gland

Pulmonary Artery Nos

Mineralization
Atrophy, Nos
Tissue Examined
Inflammation, Chronic Focal

Heart
Kidney

Mineralization
Nephropathy

Lymph node
Mammary gland

Mandibular Lymph Node

Sarcoma, Nos, Metastatic
Hyperplasia, Cystic

Pituitary gland
Stomach

Anterior Pituitary
Glandular Stomach

Cyst, Nos
Ulcer, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_036

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Brain		Hydrocephalus, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Eye	Nasolacrimal Duct	Inflammation, Acute Focal
Heart		Inflammation, Chronic Focal
Kidney		Mineralization
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Inflammation, Chronic Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_037

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Adenoma, Nos
		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Mineralization
		Nephropathy
Liver		Cyst, Hemorrhagic
	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Focal Cellular Change
		Mineralization
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Abdomen	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_038

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Adenoma, Nos
		Atrophy, Nos
		Inflammation, Chronic
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Inflammation, Chronic Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Salivary gland		Inflammation, Chronic Focal
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_039

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Intermedia	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus	Cervix Uteri	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furosemide
CAS Number: 54-31-9

Date Report Requested: 10/26/2014
Time Report Requested: 11:59:49
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_040

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Bone		Osteosclerosis
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Mineralization
		Nephropathy
Liver	Hepatocytes	Clear-Cell Change
	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_041

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Nos Hyperplasia, Focal Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos Tissue Examined
Heart		Inflammation, Chronic Focal
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Hepatocytes Bile Duct	Pigmentation, Nos Cytoplasmic Vacuolization Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_042

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos
	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Intestine Large	Colon	Hemorrhage
Kidney		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
Ovary		Cystadenoma, Nos
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Hyperplasia, Intraductal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Hemorrhage
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_043

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Pigmentation, Nos
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Tissue Not Examined
Heart		Inflammation, Chronic Focal
Kidney		Cyst, Nos
		Nephropathy
		Pigmentation, Nos
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
		Congestion, Nos
		Hyperplasia, Alveolar Epithelium
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Inflammation, Chronic Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_044

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos Medulla	Focal Cellular Change Hyperplasia, Focal Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Adenoma, Nos Tissue Examined
Heart		Inflammation, Chronic Focal Neurilemoma
Kidney	Tubule	Necrosis, Focal Nephropathy
Liver	Hepatocytes	Pigmentation, Nos Cytoplasmic Change, Basophilic Hematopoiesis
Lung		Alveolar Macrophages
Mammary gland		Adenoma, Nos Fibroadenoma Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Cyst, Nos
Spleen		Hematopoiesis
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell
Uterus		Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_045

TRT#: 3

DOSE: 0

SEX: Female

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Clitoral gland

Heart

Liver

Mammary gland

Nasal cavity

Ovary

Pituitary gland

Thymus

Unspecified

Anterior Pituitary

Multiple Organs Nos

Tissue Not Examined

Inflammation, Chronic Focal

Necrosis, Focal

Hyperplasia, Cystic

Hemorrhage

Cyst, Nos

Cyst, Nos

Involution, Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_046

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Blood vessel	Pulmonary Artery Nos	Mineralization
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Hemorrhage
		Inflammation, Chronic Focal
Liver		Abnormal Curvature
	Hepatocytes	Cytoplasmic Change, Eosinophilic
	Hepatocytes	Cytoplasmic Vacuolization
		Hemorrhage
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_047

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla Medulla	Hyperplasia, Focal Hyperplasia, Nos Pheochromocytoma
Brain		Gliosis
Clitoral gland		Adenoma, Nos Tissue Examined
Eye	Crystalline Lens Cornea	Degeneration, Nos Vascularization
Heart		Inflammation, Chronic Focal Thrombosis, Nos
Intestine Large	Atrium Cecum, Colon	Edema, Nos Nephropathy
Kidney		Cytoplasmic Vacuolization
Liver	Hepatocytes Bile Duct	Hyperplasia, Focal Necrosis, Focal
Lung		Alveolar Macrophages Hemorrhage Inflammation, Chronic Focal Mineralization Thrombosis, Nos
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary Anterior Pituitary	Cyst, Nos Hyperplasia, Focal
Stomach	Forestomach Forestomach Glandular Stomach	Hyperplasia, Epithelial Ulcer, Nos Ulcer, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Fibrous Histiocytoma
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_048

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland		Atrophy, Nos
Heart		Tissue Examined
Kidney	Tubule	Inflammation, Chronic Focal Necrosis, Focal Nephropathy
Liver	Hepatocytes Bile Duct	Pigmentation, Nos Cytoplasmic Change, Basophilic Hyperplasia, Focal Inflammation, Chronic
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Salivary gland		Focal Cellular Change
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Cyst, Nos
Unspecified	Mediastinum Nos	Hyperplasia, C Cell Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_049

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Clitoral gland		Atrophy, Nos
		Tissue Examined
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Nos
Salivary gland		Focal Cellular Change
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus	Cervix Uteri	Cyst, Epidermal Inclusion
		Endometrial Stromal Polyp
	Cervix Uteri	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55936

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furosemide

CAS Number: 54-31-9

Date Report Requested: 10/26/2014

Time Report Requested: 11:59:49

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_050

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
	Cortex Nos	Degeneration, Nos
Brain		Congestion, Nos
Clitoral gland		Atrophy, Nos
		Tissue Examined
Heart		Inflammation, Chronic Focal
Kidney		Nephropathy
Liver		Congestion, Nos
	Hepatocytes	Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
		Inflammation, Chronic Focal
Lung		Congestion, Nos
	Bronchus	Foreign Body, Nos
		Inflammation, Chronic Focal
Mammary gland		Hyperplasia, Cystic
Nasal cavity		Foreign Body, Nos
		Inflammation, Acute Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Involution, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

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** END OF REPORT **

* PROTOCOL REQUIRED TISSUE