

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

C Number: C55925

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_001

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Pigmentation, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| Thyroid | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | C-Cell Adenoma |
| | Abdominal Cavity | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Mesothelioma, Nos |
| | | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_002

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Kidney | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Nasal cavity | | Foreign Body, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Hyperplasia, Interstitial Cell |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_003

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Bone | | Fibrous Osteodystrophy |
| Kidney | | Nephropathy |
| Liver | | Neoplastic Nodule |
| Lung | | Congestion, Nos |
| | | Edema, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Hematopoiesis |
| | Multiple Organs Nos | Hyperplasia, Lymphoid |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_004

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Dilatation, Nos |
| | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Intestine Large | Cecum, Colon | Edema, Nos |
| | Colon | Edema, Nos |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Clear-Cell Change |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lung | | Metaplasia, Osseous |
| | | Mineralization |
| Lymph node | Mesenteric Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Inflammation, Acute Focal |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Congestion, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | Forestomach | Edema, Nos |
| Testis | | Atrophy, Diffuse |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_005

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Angiectasis |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone marrow | | Fibrosis, Myelo |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Pigmentation, Nos |
| | Bile Duct | Hyperplasia, Focal |
| | | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Preputial gland | Acinus | Atrophy, Nos |
| Skin | Lower Leg | Basal-Cell Tumor |
| Stomach | Forestomach | Ulcer, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_006

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Aorta Nos | Dilatation, Nos |
| Bone | | Fibrous Osteodystrophy |
| Heart | Atrium | Dilatation, Nos |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lymph node | Mesenteric Lymph Node | Edema, Nos |
| Mammary gland | | Galactocele |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Atrophy, Focal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_007

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|--------------------------|--|
| Adrenal gland | Cortex Nos Medulla | Angiectasis Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos Nephropathy |
| Liver | Hepatocytes Bile Duct | Congestion, Nos Cytoplasmic Change, Basophilic Degeneration, Cystic Hyperplasia, Focal Necrosis, Focal |
| Lung | | Congestion, Nos |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Nasal cavity | | Infection, Fungal Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_008

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| | | Mineralization |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| Lung | | Mineralization |
| | | Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Glandular Stomach | Hemorrhage |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_009

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| Bone | | Fibrous Osteodystrophy |
| Bone marrow | | Atrophy, Diffuse |
| Eye | Retina | Atrophy, Focal |
| | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| | | Pigmentation, Nos |
| Lung | | Metaplasia, Osseous |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Foreign Body, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Nose | Squamous Cell Papilloma |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_010

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Bone marrow | | Hyperplasia, Reticulum Cell |
| Heart | | Inflammation, Chronic Focal |
| | | Mineralization |
| | Atrium | Thrombosis, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Hyperplasia, Intraductal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_011

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Bone | | Fibrous Osteodystrophy |
| Intestine Large | Colon | Parasitism |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Nasal cavity | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| | | Inflammation, Suppurative |
| Prostate | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Tail | Keratoacanthoma |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|--|---|
| Adrenal gland | Cortex Nos Medulla | Cyst, Nos Hyperplasia, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Dilatation, Nos Nephropathy |
| Liver | | Degeneration, Cystic |
| Pancreas | Bile Duct Acinus | Hyperplasia, Focal Atrophy, Focal |
| Pituitary gland | Anterior Pituitary Anterior Pituitary | Cyst, Nos Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Cyst, Nos |
| Unspecified | Groin Multiple Organs Nos | Inflammation, Chronic Focal Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_013

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| | | Osteochondroma |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| Lung | | Hemorrhage |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Adenoma, Nos |
| | | Atrophy, Nos |
| Salivary gland | | Atrophy, Focal |
| Seminal vesicle | | Atrophy, Nos |
| Skeletal muscle | | Hemorrhage |
| Skin | Back | Keratoacanthoma |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_014

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|----------------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | Cranial Cavity | Carcinoma, Nos, Metastatic |
| Epididymis | | Degeneration, Nos |
| Eye | | Acquired Absence |
| | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| | | Hyperplasia, Alveolar Epithelium |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_015

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Hyperplasia, Nos |
| Epididymis | | Degeneration, Nos |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| | | Neoplastic Nodule |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_016

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|----------------------------------|
| Bone | | Fibrous Osteodystrophy |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Eosinophilic |
| | Bile Duct | Degeneration, Cystic |
| Lung | | Hyperplasia, Focal |
| Pancreas | Acinus | Hemorrhage |
| | | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Edema, Nos |
| Preputial gland | | Hyperplasia, Focal |
| | | Atrophy, Nos |
| Testis | | Hyperplasia, Nos |
| | | Atrophy, Focal |
| Thymus | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Involution, Nos |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_017

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| | | Necrosis, Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Necrosis, Focal |
| Lung | | C-Cell Carcinoma, Metastatic |
| | | Hemorrhage |
| | | Inflammation, Chronic Focal |
| Nasal cavity | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Intermedia | Cyst, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Nos |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | | Fibroma |
| | Abdominal Cavity | Mesothelioma, Nos |
| | Multiple Organs Nos | Mineralization |
| Urethra | | Hyperplasia, Epithelial |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_018

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma, Malignant |
| Bone | Skull | Abnormal Curvature |
| | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Intestine Small | Jejunum | Congestion, Nos |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Degeneration, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Sebaceous Gland | Hyperplasia, Nos |
| | Lip Nos | Inflammation, Chronic Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_019

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hemorrhage |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Hemorrhage |
| | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| Lung | | Pigmentation, Nos |
| Lymph node | Mandibular Lymph Node | Cyst, Nos |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Face | Inflammation, Chronic Focal |
| | Back | Trichoepithelioma |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_020

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Degeneration, Cystic |
| | | Hemorrhage |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Mandibular Lymph Node | Lymphangiectasis |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Adenoma, Nos |
| | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_021

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Mesenteric Lymph Node | Edema, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Inflammation, Chronic Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |
| Zymbal gland | | Adenoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_022

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Necrosis, Focal |
| Lung | | Alveolar Macrophages |
| | | Congestion, Nos |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| | | Inflammation, Chronic Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Spleen | | Congestion, Nos |
| | | Edema, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

| ANIMAL ID: 1_023 | TRT#: 1 DOSE: 2000 PPM | SEX: Male DISP: Moribund Sacrifice | DAY ON TEST: HISTO: |
|------------------------|----------------------------------|---|------------------------|
| OBSERVATIONS | | | |
| Adrenal gland | Cortex Nos Medulla Medulla | Angiectasis Hyperplasia, Nos Pheochromocytoma | |
| Bone | | Fibrous Osteodystrophy | |
| Eye | Retina Nasolacrimal Duct | Atrophy, Focal Inflammation, Acute Focal | |
| Harderian gland | Hardarian Gland | Inflammation, Chronic Focal | |
| Heart | | Inflammation, Chronic Focal | |
| Intestine Large | Colon | Parasitism | |
| Kidney | Pelvis | Cyst, Nos Hyperplasia, Epithelial Nephropathy | |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic Inflammation, Chronic Focal | |
| Nasal cavity | | | |
| Pancreas | Acinus | Atrophy, Focal Hyperplasia, Nos | |
| Parathyroid gland | | Atrophy, Nos | |
| Preputial gland | | Atrophy, Nos | |
| Seminal vesicle | | Mineralization | |
| Stomach | Forestomach | Atrophy, Focal Interstitial-Cell Tumor | |
| Testis | | Involution, Nos Hyperplasia, C Cell | |
| Thymus | | Mineralization | |
| Thyroid | | | |
| Unspecified | Multiple Organs Nos | | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_024

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Congestion, Nos |
| | Medulla | Hyperplasia, Nos |
| Eye | Retina | Atrophy, Nos |
| | Cornea | Inflammation, Chronic Focal |
| Heart | | Inflammation, Chronic Focal |
| | | Thrombus, Mural |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Mammary gland | | Fibroadenoma |
| | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Hip | Keratoacanthoma |
| Spleen | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | | Inflammation, Suppurative |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_025

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Congestion, Nos |
| Blood vessel | Artery Nos | Hypertrophy, Nos |
| | Pulmonary Artery Nos | Mineralization |
| Brain | | Hemorrhage |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Congestion, Nos |
| | | Mineralization |
| | | Nephropathy |
| Liver | | Congestion, Nos |
| | | Hemorrhage |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lung | | Congestion, Nos |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| | Mesenteric Lymph Node | Hemorrhage |
| Preputial gland | | Atrophy, Nos |
| Stomach | Glandular Stomach | Ulcer, Nos |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_026

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Cyst, Nos |
| | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Skin | Tail | Hyperkeratosis |
| | Face | Hyperplasia, Epithelial |
| Stomach | Forestomach | Inflammation, Chronic Focal |
| | Forestomach | Ulcer, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_027

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---|---|
| Adrenal gland | Cortex Nos Medulla Medulla | Cyst, Nos Hyperplasia, Nos Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal Necrosis, Focal |
| Lymph node | Renal Lymph Node Thoracic Lymph Node | Edema, Nos Edema, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos Carcinoma, Nos |
| Prostate | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Tail | Hyperkeratosis |
| Spleen | | Atrophy, Focal |
| Stomach | Forestomach | Mineralization |
| Testis | | Atrophy, Diffuse Atrophy, Focal Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos Abdominal Cavity | Mineralization Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_028

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|--|--|
| Adrenal gland | Cortex Nos Medulla | Cyst, Nos Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Eye | Retina Sclera | Atrophy, Focal Mineralization |
| Heart | Atrium | Inflammation, Chronic Focal Thrombosis, Nos |
| Kidney | | Nephropathy Pigmentation, Nos |
| Liver | Hepatocytes Bile Duct | Cytoplasmic Vacuolization Hyperplasia, Focal |
| Lung | | Alveolar Macrophages Alveolar/Bronchiolar Adenoma Congestion, Nos Metaplasia, Osseous |
| Mammary gland | | Hyperplasia, Cystic |
| Pituitary gland | Anterior Pituitary Anterior Pituitary Anterior Pituitary | Adenoma, Nos Cyst, Nos Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Focal Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell Pigmentation, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_029

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------------------|---|
| Adrenal gland | Cortex Nos Medulla Medulla | Degeneration, Nos Hyperplasia, Nos Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos Nephropathy Pigmentation, Nos Tubular-Cell Adenoma |
| Liver | Hepatocytes Bile Duct | Cytoplasmic Change, Basophilic Hyperplasia, Focal |
| Lymph node | Mandibular Lymph Node | Edema, Nos |
| Preputial gland | | Adenoma, Nos Atrophy, Nos |
| Salivary gland | | Atrophy, Focal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Brain | | Hemorrhage |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Mineralization |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Alveolar/Bronchiolar Adenoma |
| | | Hemorrhage |
| Lymph node | | Cyst, Nos |
| | | Pigmentation, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Hemorrhage |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Skin | Tail | Hyperkeratosis |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| | Forestomach | Inflammation, Acute Focal |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Leg | Cyst, Nos |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Leg | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_031

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Pigmentation, Nos |
| Lymph node | Mandibular Lymph Node | Cyst, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Ear | Hyperplasia, Epithelial |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_032

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Face | Inflammation, Chronic Focal |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_033

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Degeneration, Nos |
| | Cortex Nos | Hemorrhage |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Congestion, Nos |
| | | Mineralization |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | | Hemorrhage |
| | Bile Duct | Hyperplasia, Focal |
| | Bile Duct | Inflammation, Suppurative |
| | | Necrosis, Focal |
| Lung | | Congestion, Nos |
| | | Hemorrhage |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| | Mesenteric Lymph Node | Congestion, Nos |
| | Thoracic Lymph Node | Inflammation, Acute Focal |
| | Thoracic Lymph Node | Necrosis, Focal |
| Pancreas | | Inflammation, Chronic Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Inflammation, Chronic Focal |
| Seminal vesicle | | Dilatation, Nos |
| Stomach | Glandular Stomach | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_034

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Abnormal Curvature |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Inflammation, Chronic Focal |
| Lymph node | Mesenteric Lymph Node | Edema, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Stomach | Glandular Stomach | Cyst, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Mediastinum Nos | Periarteritis |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_035

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Angiectasis |
| | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Hemorrhage |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_036

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|--|---|
| Adrenal gland | Cortex Nos Medulla | Degeneration, Nos Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| | | Congestion, Nos |
| Lung | | Edema, Nos |
| Lymph node | Renal Lymph Node | Inflammation, Acute Focal |
| Nasal cavity | | Atrophy, Focal |
| Pancreas | Acinus | Hyperplasia, Nos |
| Parathyroid gland | | Adenoma, Nos |
| Pituitary gland | Anterior Pituitary | Atrophy, Nos |
| Preputial gland | | Congestion, Nos |
| Spleen | | Hyperplasia, Epithelial |
| Stomach | Forestomach Forestomach | Inflammation, Acute Focal |
| Testis | | Atrophy, Focal Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos Multiple Organs Nos | Leukemia, Mononuclear Cell Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------------|--|
| Adrenal gland | Cortex Nos Medulla | Cytoplasmic Vacuolization Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Eye | Cornea Nasolacrimal Duct | Inflammation, Acute Focal Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial Nephropathy |
| Lung | | Edema, Nos |
| Nasal cavity | | Foreign Body, Nos Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Suppurative |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_038

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Cyst, Hemorrhagic |
| Eye | Sclera | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Congestion, Nos |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Skin | Back | Squamous Cell Carcinoma |
| Spleen | | Atrophy, Focal |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| | Glandular Stomach | Mineralization |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_039

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|---------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone marrow | | Hyperplasia, Granulocytic |
| Eye | Cornea | Inflammation, Acute Focal |
| Kidney | | Mineralization |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| | | Inflammation, Suppurative |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Stomach | Forestomach | Inflammation, Acute Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Thymus | | Involution, Nos |
| Zymbal gland | | Adenoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_040

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|-----------------------------|
| Adrenal gland | Capsule | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Posterior Lobe | Gliosis |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_041

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Adenoma, Nos |
| | | Atrophy, Nos |
| Spleen | | Congestion, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_042

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------------------|---|
| Adrenal gland | Cortex Nos Medulla Medulla | Angiectasis Hyperplasia, Nos Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Eye | Cornea Cornea | Inflammation, Chronic Focal Mineralization |
| Heart | Atrium | Thrombosis, Nos |
| Intestine Large | Colon | Parasitism |
| Kidney | Pelvis | Hyperplasia, Epithelial Nephropathy |
| Liver | Hepatocytes Bile Duct | Cytoplasmic Change, Basophilic Degeneration, Cystic Hyperplasia, Focal Inflammation, Chronic Focal Inflammation, Chronic Focal Pigmentation, Nos |
| Lung | | |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Carcinoma, Nos Cyst, Nos |
| Spleen | | Atrophy, Focal |
| Stomach | Glandular Stomach | Inflammation, Chronic Focal |
| Testis | | Atrophy, Diffuse Atrophy, Focal Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Groin | Inflammation, Chronic Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_043

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------|
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Mineralization |
| | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Intermedia | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Stomach | Glandular Stomach | Mineralization |
| | Glandular Stomach | Ulcer, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_044

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---|--|
| Adrenal gland | Cortex Nos Medulla Medulla | Congestion, Nos Hyperplasia, Nos Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial Nephropathy |
| Liver | | Congestion, Nos Degeneration, Cystic Necrosis, Focal |
| Lung | | Congestion, Nos |
| Lymph node | Hepatic Lymph Node | Congestion, Nos |
| Nasal cavity | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | | Congestion, Nos Degeneration, Nos |
| Testis | | Atrophy, Focal Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos Abdominal Cavity | Mineralization Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_045

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Congestion, Nos |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_046

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Degeneration, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Suppurative |
| Skin | Tail | Hyperkeratosis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_047

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Degeneration, Nos |
| | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Mineralization |
| | | Nephropathy |
| Liver | Bile Duct | Pigmentation, Nos |
| Lung | | Hyperplasia, Focal |
| | | Hemorrhage |
| | | Mineralization |
| | | Pigmentation, Nos |
| Mammary gland | | Lactation |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Inflammation, Chronic Focal |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | Glandular Stomach | Mineralization |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Groin | Inflammation, Chronic Focal |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_048

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Tubule | Degeneration, Nos |
| | | Mineralization |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Infarct, Nos |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Atrophy, Focal |
| Unspecified | Multiple Organs Nos | Histiocytic Sarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_049

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_050

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 2000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Brain | | Hemorrhage |
| Harderian gland | Harderian Gland | Inflammation, Chronic Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hemorrhage |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Skin | Thorax | Hyperplasia, Epithelial |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| | Mesenteric Lymph Node | Hyperplasia, Plasma Cell |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Eye | Retina | Atrophy, Diffuse |
| | Crystalline Lens | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Cyst, Nos |
| | Tubule | Necrosis, Focal |
| | | Nephropathy |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Inflammation, Chronic Focal |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Plasma Cell |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Carcinoma, Nos |
| Prostate | | Hyperplasia, Epithelial |
| | | Inflammation, Chronic Focal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | Pelvis | Inflammation, Suppurative |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Hematopoiesis |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Pigmentation, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Stomach | Glandular Stomach | Mineralization |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Urinary bladder | Submucosa | Inflammation, Chronic Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Necrosis, Focal |
| Heart | | Inflammation, Chronic Focal |
| | Ventricle | Thrombosis, Nos |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Crystals, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Posterior Lobe | Gliosis |
| Preputial gland | | Atrophy, Nos |
| Skin | Foot And Toe Nos | Squamous Cell Papilloma |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| | Glandular Stomach | Ulcer, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| Thymus | | Involution, Nos |
| Thyroid | | Cyst, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Congestion, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Hemorrhage |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lung | | Congestion, Nos |
| Lymph node | Mesenteric Lymph Node | Hemorrhage |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| | | Necrosis, Focal |
| Prostate | | Hyperplasia, Epithelial |
| | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Necrosis, Focal |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Groin | Inflammation, Suppurative |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Pigmentation, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Glandular Stomach | Necrosis, Focal |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Congestion, Nos |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| Lung | | Congestion, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Diffuse |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Groin | Inflammation, Chronic Focal |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Hydrocephalus, Nos |
| Eye | Retina | Atrophy, Diffuse |
| | Crystalline Lens | Degeneration, Nos |
| | Anterior Chamber | Hemorrhage |
| | Cornea | Inflammation, Chronic Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| Lung | | Congestion, Nos |
| Lymph node | | Hyperplasia, Plasma Cell |
| Nasal cavity | | Infection, Fungal |
| | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | | Cyst, Epidermal Inclusion |
| Spleen | | Congestion, Nos |
| | | Fibrosarcoma |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| | | C-Cell Carcinoma |
| Trachea | Gland | Cyst, Nos |
| Unspecified | Foot Nos | Inflammation, Chronic Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Heart

Kidney

Liver

Preputial gland

Seminal vesicle

Testis

Thymus

Unspecified

Medulla

Pulmonary Artery Nos

Bile Duct

Multiple Organs Nos

Hypoplasia, Congenital

Pheochromocytoma

Mineralization

Inflammation, Chronic Focal

Nephropathy

Degeneration, Cystic

Hyperplasia, Focal

Adenoma, Nos

Atrophy, Nos

Atrophy, Nos

Atrophy, Diffuse

Interstitial-Cell Tumor

Involution, Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pituitary gland | Intermedia | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Mediastinum Nos | Thrombosis, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Tubule | Necrosis, Focal Nephropathy |
| Liver | | Abnormal Curvature |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Hyperplasia, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Renal Lymph Node | Hemorrhage |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Congestion, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Crystals, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Groin | Fibroma |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Atrophy, Focal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Trachea | Gland | Cyst, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Congestion, Nos |
| | Bile Duct | Hyperplasia, Focal |
| | | Congestion, Nos |
| Lung | | Cyst, Nos |
| Lymph node | Mandibular Lymph Node | Fibroadenoma |
| Mammary gland | | Inflammation, Acute Focal |
| Nasal cavity | | Atrophy, Focal |
| Pancreas | Acinus | Hyperplasia, Nos |
| Parathyroid gland | | Atrophy, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Pigmentation, Nos |
| Lymph node | Mandibular Lymph Node | Cyst, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Infection, Fungal |
| | | Inflammation, Chronic Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Abdomen | Fibroma |
| | Thorax | Fibrous Histiocytoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|----------------------------------|
| Bone | | Fibrous Osteodystrophy |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Abnormal Curvature |
| | Hepatocytes | Clear-Cell Change |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Hepatocytes | Cytoplasmic Vacuolization |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Pigmentation, Nos |
| Parathyroid gland | | Atrophy, Nos |
| Preputial gland | | Adenoma, Nos |
| | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|----------------------------|
| Kidney | | Nephropathy |
| Mammary gland | | Hyperplasia, Cystic |
| Preputial gland | | Atrophy, Nos |
| Stomach | Forestomach | Edema, Nos |
| | Forestomach | Hyperplasia, Epithelial |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Hyperplasia, Nos |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Mammary gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| | | Inflammation, Suppurative |
| Salivary gland | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Mediastinum Nos | Hemorrhage |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Brain | | Hemorrhage |
| | | Hydrocephalus, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lung | | Congestion, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Tail | Cyst, Epidermal Inclusion |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Necrosis, Focal |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Necrosis, Focal |
| Heart | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Kidney | Tubule | Necrosis, Focal |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| | | Thrombosis, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Necrosis, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Carcinoma, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Bone | | Fibrous Osteodystrophy |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Adenocarcinoma, Nos |
| | | Hyperplasia, Cystic |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Astrocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Pigmentation, Nos |
| Mammary gland | | Adenoma, Nos |
| | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Groin | Inflammation, Chronic Focal |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Clear-Cell Change |
| | Bile Duct | Hyperplasia, Focal |
| | | Thrombosis, Nos |
| Lung | | Hemorrhage |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Necrosis, Focal |
| Stomach | Forestomach | Inflammation, Acute Focal |
| | Glandular Stomach | Ulcer, Nos |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Trunk | Fibroma |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Eye | Cornea | Inflammation, Chronic Focal |
| | Cornea | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Pigmentation, Nos |
| Lymph node | Mesenteric Lymph Node | Cyst, Nos |
| | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Seminal vesicle | | Atrophy, Nos |
| Skin | | Cyst, Epidermal Inclusion |
| Stomach | Glandular Stomach | Mineralization |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Face | Inflammation, Suppurative |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Medulla

Pheochromocytoma

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Inflammation, Chronic Focal

Kidney

Nephropathy

Lung

Inflammation, Chronic Focal

Nasal cavity

Hemorrhage

Preputial gland

Atrophy, Nos

Prostate

Hyperplasia, Epithelial

Seminal vesicle

Inflammation, Chronic Focal

Spleen

Atrophy, Nos

Testis

Atrophy, Focal

Thymus

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Involution, Nos
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|--|--|
| Adrenal gland | Cortex Nos Medulla | Hyperplasia, Focal Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Thoracic Lymph Node Mesenteric Lymph Node | Cyst, Nos Mastocytosis |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Edema, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Alveolar Macrophages |
| | | Hemorrhage |
| Lymph node | Renal Lymph Node | Cyst, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Congestion, Nos |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Nephropathy |
| Liver | | Congestion, Nos |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lung | | Atelectasis |
| | | Congestion, Nos |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| | Mesenteric Lymph Node | Congestion, Nos |
| Pituitary gland | Anterior Pituitary | Congestion, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Cyst, Nos |
| Unspecified | | Edema, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Adenocarcinoma, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Thymus | | Involution, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma, Malignant |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Inflammation, Chronic Focal |
| Pancreas | Acinus | Atrophy, Diffuse |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Diffuse |
| Testis | | Atrophy, Diffuse |
| | | Hyperplasia, Interstitial Cell |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Inflammation, Chronic Focal |
| Lymph node | Mesenteric Lymph Node | Histiocytosis |
| | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| | | Inflammation, Chronic Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Adenoma, Nos |
| | | Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Brain | | Carcinoma, Nos, Invasive |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Hemorrhage |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hemorrhage |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Hemorrhage |
| | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Carcinoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Hemorrhage |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Trachea | | Hemorrhage |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Dilatation, Nos |
| Lymph node | Renal Lymph Node | Cyst, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Atrophy, Nos |
| Skin | | Cyst, Epidermal Inclusion |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Intestine Small | Mesentery Nos | Periarteritis |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|----------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Inflammation, Acute Focal |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| Lung | | Alveolar Macrophages |
| | | Congestion, Nos |
| | | Hyperplasia, Alveolar Epithelium |
| Pancreas | Acinus | Atrophy, Focal |
| | Duct Nos | Calculus, Unknown Gross Or Micro |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Inflammation, Suppurative |
| Spleen | | Congestion, Nos |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Abdominal Cavity | Inflammation, Chronic Focal |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | Vertebra | Abnormal Curvature |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lymph node | Mesenteric Lymph Node | Edema, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Stomach | Glandular Stomach | Hyperplasia, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Edema, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Tubular-Cell Adenoma |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Inflammation, Acute Focal |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| Prostate | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Diffuse |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Edema, Nos |
| | | Hemorrhage |
| | | Inflammation, Chronic Focal |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Edema, Nos |
| | Forestomach | Mineralization |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Congestion, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Alveolar Macrophages |
| | | Hemorrhage |
| | | Inflammation, Chronic Focal |
| | | Pigmentation, Nos |
| Pituitary gland | Intermedia | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Atrophy, Focal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Mineralization |
| Thymus | | Involution, Nos |
| Thyroid | | Pigmentation, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Eye | Retina | Atrophy, Diffuse |
| | Crystalline Lens | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Intestine Small | Ileum | Inflammation, Acute Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_046

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | Meninges | Thrombosis, Nos |
| Epididymis | | Degeneration, Nos |
| Eye | Nasolacrimal Duct | Hemorrhage |
| | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | Atrium | Dilatation, Nos |
| | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Congestion, Nos |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| | | Pigmentation, Nos |
| Pituitary gland | Anterior Pituitary | Congestion, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Congestion, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Unspecified | Groin | Hemorrhage |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|---|
| Adrenal gland | Cortex Nos Medulla | Cytoplasmic Vacuolization Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial Nephropathy |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Necrosis, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone marrow | | Hyperplasia, Hematopoietic |
| Epididymis | | Degeneration, Nos |
| Eye | Sclera | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | | Hematopoiesis |
| | Bile Duct | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Lung | | Alveolar Macrophages |
| Lymph node | Mesenteric Lymph Node | Histiocytosis |
| Pancreas | Acinus | Atrophy, Focal |
| | | Inflammation, Chronic Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | | Keratoacanthoma |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Nos |
| Thymus | | Involution, Nos |
| Unspecified | Abdominal Cavity | Mesothelioma, Nos |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Degeneration, Nos |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Intestine Large | Cecum, Colon | Inflammation, Acute Focal |
| Intestine Small | Ileum | Inflammation, Acute Focal |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Pigmentation, Nos |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Cyst, Nos |
| Prostate | | Hyperplasia, Epithelial |
| | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_001

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Bone | | Fibrous Osteodystrophy |
| Harderian gland | Harderian Gland | Hyperplasia, Nos |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Inflammation, Acute Focal |
| Kidney | Pelvis | Cyst, Nos Hyperplasia, Epithelial Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal Inflammation, Chronic Focal |
| Lung | | Inflammation, Acute Focal |
| Nasal cavity | | |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Congestion, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Adenoma, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_002

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Harderian gland | Harderian Gland | Inflammation, Chronic Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Clear-Cell Change |
| | | Congestion, Nos |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Intermedia | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |
| Zymbal gland | | Adenoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_003

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Colon | Mineralization |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Necrosis, Focal |
| Lung | | Congestion, Nos |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Diffuse |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | | Mineralization |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Diaphragm Nos | Mineralization |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_004

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Abnormal Curvature |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Hemorrhage |
| Lung | | Hyperplasia, Cystic |
| Mammary gland | | Atrophy, Focal |
| Pancreas | Acinus | Hyperplasia, Nos |
| Parathyroid gland | | Hyperplasia, Focal |
| Pituitary gland | Anterior Pituitary | Atrophy, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Mineralization |
| Stomach | | Atrophy, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|--------------------------------|
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Congestion, Nos |
| | | Nephropathy |
| Liver | | Congestion, Nos |
| | Bile Duct | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Lung | | Congestion, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| | | Inflammation, Chronic Focal |
| Preputial gland | | Adenoma, Nos |
| Spleen | | Congestion, Nos |
| Stomach | Glandular Stomach | Inflammation, Chronic Focal |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Hemorrhage |
| | | Involution, Nos |
| Unspecified | Groin | Cyst, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_006

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------------|-----------------------------|
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Large Intestine, Colon | Inflammation, Acute Focal |
| Kidney | | Nephropathy |
| Liver | | Congestion, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Thoracic Lymph Node | Hyperplasia, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Congestion, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Cyst, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Groin | Erosion |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_007

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Harderian gland | Hardarian Gland | Pigmentation, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Renal Lymph Node | Hemorrhage |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Intermedia | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Hemorrhage |
| | Forestomach | Hyperplasia, Epithelial |
| | Forestomach | Inflammation, Chronic Focal |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Thyroid | | Pigmentation, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_008

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Angiectasis |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Necrosis, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Atrophy, Focal |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Depletion, Lymphoid |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_009

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Alveolar Macrophages |
| | | Hemorrhage |
| Lymph node | Mesenteric Lymph Node | Hemorrhage |
| | Thoracic Lymph Node | Hemorrhage |
| Mammary gland | | Hyperplasia, Cystic |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| Preputial gland | | Cyst, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_010

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Degeneration, Nos |
| | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Inflammation, Interstitial |
| | | Mineralization |
| | | Pigmentation, Nos |
| Lymph node | Mandibular Lymph Node | Cyst, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Inflammation, Suppurative |
| Prostate | | Hyperplasia, Epithelial |
| | | Inflammation, Chronic Focal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--|
| Adrenal gland | Cortex Nos Medulla | Inflammation, Acute Focal Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | Atrium | Dilatation, Nos Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Cyst, Nos Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Ear | Hyperplasia, Epithelial |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Congestion, Nos |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Abnormal Curvature |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Abdominal Cavity | Inflammation, Chronic Focal |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_013

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Inflammation, Chronic Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Hemorrhage |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | | Fibrosis, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_014

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Mineralization |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Hemorrhage |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Brachial Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hemorrhage |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| | Intermedia | Cyst, Nos |
| | Intermedia | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_015

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|----------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Intestine Large | Cecum, Colon | Edema, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic Focal |
| Lymph node | | Congestion, Nos |
| | | Hyperplasia, Plasma Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Carcinoma, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hemorrhage |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | | Hemorrhage |
| | Bile Duct | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| Lung | | Hemorrhage |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Nasal cavity | | Infection, Fungal |
| | | Inflammation, Acute Focal |
| | | Squamous Cell Carcinoma |
| Pancreas | Acinus | Atrophy, Focal |
| | | Inflammation, Chronic Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Salivary gland | | Inflammation, Chronic Focal |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| | Forestomach | Inflammation, Acute Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Trachea | Submucosa | Inflammation, Chronic Focal |
| Unspecified | Abdominal Cavity | Hemorrhage |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_017

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Intestine Small | Ileum, Ileum | Adhesion, Nos |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | | Abnormal Curvature |
| | | Cyst, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Nasal cavity | | Foreign Body, Nos |
| | | Infection, Fungal |
| | | Inflammation, Acute Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Alveolar Macrophages |
| Pancreas | Acinus | Atrophy, Focal |
| | | Edema, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_019

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|----------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone marrow | | Fibrosis, Myelo |
| Eye | Retina | Atrophy, Focal |
| Kidney | | Mineralization |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone marrow | | Fibrosis, Myelo |
| | | Hyperplasia, Granulocytic |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Alveolar Macrophages |
| Lymph node | Inguinal Lymph Node | Edema, Nos |
| | Inguinal Lymph Node | Hyperplasia, Plasma Cell |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Carcinoma, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Diffuse |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Follicular-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_021

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone marrow | | Hyperplasia, Reticulum Cell |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Renal Lymph Node | Pigmentation, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_022

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Aorta Nos | Dilatation, Nos |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Intestine Small | Mesentery Nos | Angiectasis |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Face | Squamous Cell Carcinoma |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Cyst, Follicular Nos |
| Unspecified | Face | Inflammation, Suppurative |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_023

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Eye | Retina | Atrophy, Diffuse |
| | Crystalline Lens | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Abnormal Curvature |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Nasal cavity | | Inflammation, Acute Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | | Trichoepithelioma |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_024

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| | Medulla | Inflammation, Chronic Focal |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lung | | Hemorrhage |
| | | Inflammation, Interstitial |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Mammary gland | | Hyperplasia, Cystic |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| | Forestomach | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_025

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Cortex Nos | Necrosis, Focal |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | | Necrosis, Focal |
| Lymph node | Renal Lymph Node | Pigmentation, Nos |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| | Islets | Hyperplasia, Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| | | Hematopoiesis |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Nos |
| Thymus | | Involution, Nos |
| Unspecified | Abdominal Cavity | Mesothelioma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_026

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Abnormal Curvature |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_027

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|----------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Hematopoiesis |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Hyperplasia, Lymphoid |
| | | Inflammation, Chronic Focal |
| Lymph node | Mesenteric Lymph Node | Edema, Nos |
| | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| | Intermedia | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Nos |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_028

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--|
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Intestine Small | Ileum | Inflammation, Acute Focal |
| Kidney | | Hyperplasia, Tubular Cell Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Adenoma, Nos |
| | | Atrophy, Nos |
| Salivary gland | | Inflammation, Acute Focal |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Tail | Keratoacanthoma |
| Spleen | | Hemosiderosis |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_029

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Abnormal Curvature |
| | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_030

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Brain | | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| | Intermedia | Pigmentation, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Salivary gland | | Hyperplasia, Intraductal |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_031

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | | Nephropathy |
| Liver | | Abnormal Curvature |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Nasal cavity | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Ear | Hyperplasia, Epithelial |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_032

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Congestion, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| Nasal cavity | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Stomach | Forestomach | Mineralization |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Congestion, Nos |
| | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_033

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Inflammation, Chronic Focal

Kidney

Nephropathy

Liver

Hepatocytes

Cytoplasmic Change, Eosinophilic

Bile Duct

Hyperplasia, Focal

Lung

Inflammation, Chronic Focal

Preputial gland

Adenoma, Nos

Testis

Interstitial-Cell Tumor

Unspecified

Hip

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_034

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Eye | Nasolacrimal Duct | Hemorrhage |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_035

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Heart
Kidney

Cortex Nos
Pulmonary Artery Nos

Congestion, Nos
Mineralization
Inflammation, Chronic Focal
Nephropathy

Liver
Lung
Mammary gland
Pancreas
Preputial gland
Seminal vesicle
Testis

Bile Duct

Pigmentation, Nos
Hyperplasia, Focal
Pigmentation, Nos
Hyperplasia, Cystic

Acinus

Atrophy, Focal
Atrophy, Nos
Atrophy, Nos
Atrophy, Focal
Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_036

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|--|--|
| Adrenal gland | Cortex Nos Medulla | Hyperplasia, Focal Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic Degeneration, Cystic |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Nasal cavity | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary Anterior Pituitary | Congestion, Nos Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Inflammation, Acute Focal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

| | | | |
|---------------------------------------|--|---|--------------------------------------|
| ANIMAL ID: 3_037 | TRT#: 3 DOSE: 500 PPM | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: HISTO: |
| <hr/> OBSERVATIONS | | | |
| Adrenal gland | Cortex Nos Medulla Medulla | Hyperplasia, Focal Hyperplasia, Nos Pheochromocytoma | |
| Blood vessel | Pulmonary Artery Nos | Mineralization | |
| Heart | | Inflammation, Chronic Focal | |
| Kidney | Pelvis | Hyperplasia, Epithelial Nephropathy | |
| Liver | Bile Duct | Hyperplasia, Focal | |
| Lung | | Metaplasia, Osseous Pigmentation, Nos | |
| Pancreas | Acinus | Atrophy, Focal | |
| Parathyroid gland | | Hyperplasia, Nos | |
| Preputial gland | | Atrophy, Nos | |
| Prostate | | Inflammation, Chronic Focal | |
| Seminal vesicle | | Atrophy, Nos | |
| Spleen | | Atrophy, Focal | |
| Stomach | Forestomach | Hyperplasia, Epithelial | |
| Testis | | Atrophy, Diffuse Atrophy, Focal Interstitial-Cell Tumor | |
| Thymus | | Involution, Nos | |
| Thyroid | | Hyperplasia, C Cell | |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell | |
| <hr/> PRIMARY CAUSE OF DEATH - | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_038

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| | Islets | Islet-Cell Carcinoma |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Tail | Hyperkeratosis |
| | Tail | Hyperplasia, Epithelial |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_039

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma, Malignant |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Lung | | Congestion, Nos |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Mammary gland | | Thrombosis, Nos |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_040

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Intestine Large | Cecum, Colon | Edema, Nos |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| | | Thrombosis, Nos |
| Lung | | Metaplasia, Osseous |
| Pancreas | Acinus | Atrophy, Focal |
| | | Edema, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Edema, Nos |
| | Forestomach | Hyperplasia, Epithelial |
| Testis | | Atrophy, Diffuse |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_041

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Eye | Cornea | Vascularization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Stomach | Forestomach | Edema, Nos |
| | Forestomach | Hyperplasia, Epithelial |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_042

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Congestion, Nos |
| Kidney | | Nephropathy |
| Liver | | Congestion, Nos |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| Lung | | Congestion, Nos |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| | Thoracic Lymph Node | Hyperplasia, Lymphoid |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Atrophy, Focal |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_043

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Intermedia | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Face | Trichoepithelioma |
| Spleen | | Abnormal Curvature |
| | | Hyperplasia, Reticulum Cell |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_044

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Congestion, Nos |
| | Cortex Nos | Cytoplasmic Vacuolization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Congestion, Nos |
| | | Nephropathy |
| Liver | | Necrosis, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Congestion, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| Testis | | Congestion, Nos |
| Thymus | | Congestion, Nos |
| | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Fibrous Histiocytoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_045

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Carcinoma, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Abdomen | Cyst, Epidermal Inclusion |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_046

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Eye | Anterior Chamber | Inflammation, Acute Focal |
| | Cornea | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Mesenteric Lymph Node | Edema, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Upper Eyelid | Fibroma |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_047

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_048

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Degeneration, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Tongue | | Squamous Cell Papilloma |
| Unspecified | Multiple Organs Nos | Mineralization |
| Urinary bladder | Mucosa | Hyperplasia, Epithelial |
| | Submucosa | Inflammation, Acute Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_049

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Scrotum | Inflammation, Acute Focal |
| Stomach | Forestomach | Mineralization |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_050

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 500 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Heart

Cortex Nos
Pulmonary Artery Nos

Necrosis, Focal
Mineralization
Inflammation, Chronic Focal

Kidney
Pancreas
Pituitary gland

Atrium

Thrombosis, Nos
Nephropathy

Preputial gland
Seminal vesicle
Testis

Acinus
Anterior Pituitary
Intermedia

Atrophy, Focal
Cyst, Nos
Cyst, Nos
Adenoma, Nos
Atrophy, Nos
Atrophy, Diffuse
Atrophy, Focal

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_001

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hemorrhage |
| Pancreas | Islets | Hyperplasia, Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Carcinoma, Nos |
| Prostate | | Hyperplasia, Epithelial |
| | | Inflammation, Suppurative |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| | Glandular Stomach | Necrosis, Focal |
| | Forestomach | Ulcer, Nos |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |
| Urinary bladder | Submucosa | Edema, Nos |
| | Submucosa | Hemorrhage |
| | Submucosa | Inflammation, Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_002

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|----------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Eye | Retina | Atrophy, Focal |
| Heart | Atrium | Thrombosis, Nos |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hemorrhage |
| Lymph node | Thoracic Lymph Node | Hyperplasia, Lymphoid |
| Nasal cavity | | Infection, Fungal |
| | | Inflammation, Acute Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Inflammation, Suppurative |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_003

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Eye | Retina | Atrophy, Diffuse |
| | Crystalline Lens | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Parasitism |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Hepatocytes | Cytoplasmic Vacuolization |
| | | Degeneration, Cystic |
| | | Hematopoiesis |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Galactocele |
| Nasal cavity | | Hemorrhage |
| Pancreas | Acinus | Atrophy, Focal |
| | Acinus | Cytoplasmic Change, Basophilic |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Skin | | Keratoacanthoma |
| Spleen | | Atrophy, Focal |
| | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_004

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---|--|
| Adrenal gland | Cortex Nos Medulla | Hyperplasia, Focal Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes Hepatocytes Bile Duct | Cytoplasmic Change, Basophilic Cytoplasmic Change, Eosinophilic Hyperplasia, Focal |
| Lung | | Alveolar/Bronchiolar Adenoma Inflammation, Chronic Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Adenoma, Nos |
| Prostate | | Atrophy, Nos |
| Testis | | Inflammation, Chronic Focal Atrophy, Focal |
| Thymus | | Interstitial-Cell Tumor Involution, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_005

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---|---|
| Adrenal gland | Cortex Nos Cortex Nos Medulla | Cytoplasmic Vacuolization Hyperplasia, Focal Hyperplasia, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy Pigmentation, Nos |
| Liver | Hepatocytes Bile Duct | Cytoplasmic Vacuolization Hyperplasia, Focal |
| Lung | | Crystals, Nos Inflammation, Chronic Focal |
| Lymph node | Mandibular Lymph Node Mandibular Lymph Node | Cyst, Nos Hyperplasia, Plasma Cell |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Foreign Body, Nos Infection, Fungal Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Intermedia Anterior Pituitary | Cyst, Nos Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos Cyst, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach Glandular Stomach Forestomach | Hyperplasia, Epithelial Inflammation, Acute Focal Ulcer, Nos |
| Testis | | Atrophy, Focal Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_006

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Congestion, Nos |
| | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Hemorrhage |
| | | Necrosis, Focal |
| Esophagus | | Hyperkeratosis |
| Eye | Retina | Atrophy, Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | | Congestion, Nos |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | | Necrosis, Diffuse |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_007

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Hyperplasia, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Hemorrhage |
| | | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Inflammation, Acute Focal |
| Kidney | | Nephropathy |
| Liver | | Abnormal Curvature |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| | | Necrosis, Focal |
| Stomach | Forestomach | Inflammation, Acute Focal |
| | Glandular Stomach | Ulcer, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_008

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Gliosis |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | | Hematopoiesis |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Neurilemoma, Malignant |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_009

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Hyperplasia, Epithelial |
| Testis | | Atrophy, Focal |
| | Tunica Vaginalis | Interstitial-Cell Tumor |
| Thymus | | Mesothelioma, Nos |
| Unspecified | Abdominal Cavity | Involution, Nos |
| | | Mesothelioma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_010

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Tubular-Cell Adenoma |
| Liver | | Abnormal Curvature |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Crystals, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| | Islets | Islet-Cell Adenoma |
| | | Necrosis, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hemorrhage |
| | Anterior Pituitary | Hyperplasia, Focal |
| | Anterior Pituitary | Necrosis, Focal |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Cytoplasmic Change, Basophilic |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Glandular Stomach | Mineralization |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_011

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | | Degeneration, Cystic |
| | | Hematopoiesis |
| | Bile Duct | Hyperplasia, Focal |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Interstitial |
| Lymph node | Mandibular Lymph Node | Cyst, Nos |
| | Thoracic Lymph Node | Cyst, Nos |
| | Mesenteric Lymph Node | Edema, Nos |
| | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| | Thoracic Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Inflammation, Chronic Focal |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| | Intermedia | Cyst, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Skin | Back | Hyperkeratosis |
| Spleen | | Atrophy, Focal |
| | | Congestion, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_012

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Hemorrhage |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Intermedia | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_013

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|----------|------------------|-----------------------------|
| Bone | Vertebra | Hemangiosarcoma |
| Eye | Retina | Atrophy, Diffuse |
| | Crystalline Lens | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lung | | Edema, Nos |
| Pancreas | | Inflammation, Chronic Focal |
| Thyroid | | Cyst, Follicular Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_014

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|----------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Hepatocytes | Cytoplasmic Change, Eosinophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hyperplasia, Alveolar Epithelium |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Carcinoma, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_015

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Hyperplasia, Epithelial |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_016

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|----------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Hemorrhage |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Tubular-Cell Adenoma |
| Liver | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Hyperplasia, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Groin | Hyperkeratosis |
| Stomach | Glandular Stomach | Mineralization |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_017

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Dilatation, Nos |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | Bronchus | Fibrosis, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Stomach | Glandular Stomach | Ulcer, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Abdominal Cavity | Neurilemoma, Malignant |
| Urinary bladder | Cavity | Dilatation, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_018

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|----------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Clear-Cell Change |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Hepatocytes | Cytoplasmic Change, Eosinophilic |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Spleen | | Congestion, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_019

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Nasal cavity | | Infection, Fungal |
| | | Inflammation, Acute Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Shoulder | Keratoacanthoma |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_020

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | | Cyst, Nos |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Skin | Nose | Hyperplasia, Epithelial |
| | | Keratoacanthoma |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Leg | Fibroma |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_021

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | Atrium | Thrombosis, Nos |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_022

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------------------|---|
| Adrenal gland | Cortex Nos Cortex Nos Medulla | Degeneration, Nos Hyperplasia, Focal Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Inflammation, Suppurative Nephropathy Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Change, Eosinophilic Degeneration, Cystic Necrosis, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_023

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|---|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal Mineralization |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | | Inflammation, Chronic Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Salivary gland | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_024

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Degeneration, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| Pancreas | Acinus | Atrophy, Focal |
| | | Inflammation, Chronic Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Leg | Neurilemoma, Malignant |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_025

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Bone marrow | | Fibrosis, Myelo |
| Epididymis | | Hyperplasia, Epithelial |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Hyperplasia, Epithelial |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| Stomach | Forestomach | Squamous Cell Papilloma |
| | Forestomach | Ulcer, Nos |
| Testis | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_026

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Necrosis, Focal

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Inflammation, Chronic Focal

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Preputial gland

Necrosis, Focal

Seminal vesicle

Atrophy, Nos

Testis

Atrophy, Nos

Atrophy, Focal

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_027

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Bone marrow
Heart
Kidney
Lung
Lymph node
Pancreas
Pituitary gland
Preputial gland
Spleen
Testis

Cortex Nos
Pulmonary Artery Nos

Atrium

Mandibular Lymph Node
Acinus
Anterior Pituitary

Angiectasis
Mineralization
Hyperplasia, Reticulum Cell
Thrombosis, Nos
Nephropathy
Hemorrhage
Congestion, Nos
Atrophy, Focal
Adenoma, Nos
Atrophy, Nos
Hematopoiesis
Atrophy, Focal
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Carcinoma, Nos

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_028

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Inflammation, Chronic Focal |
| Kidney | | Cyst, Nos |
| | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Tubular-Cell Adenoma |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Metaplasia, Osseous |
| Pancreas | Acinus | Atrophy, Focal |
| | Islets | Hyperplasia, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Suppurative |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Abdomen | Trichoepithelioma |
| Spleen | | Atrophy, Focal |
| Stomach | Glandular Stomach | Mineralization |
| Testis | | Atrophy, Diffuse |
| | | Hyperplasia, Interstitial Cell |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_029

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Medulla

Pheochromocytoma, Malignant

Blood vessel

Pulmonary Artery Nos

Mineralization

Kidney

Nephropathy

Liver

Congestion, Nos

Bile Duct

Hyperplasia, Focal

Lung

Congestion, Nos

Lymph node

Mandibular Lymph Node

Congestion, Nos

Preputial gland

Atrophy, Nos

Testis

Interstitial-Cell Tumor

Thymus

Hemorrhage

Involution, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_030

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Hemorrhage |
| | | Hydrocephalus, Nos |
| | | Pigmentation, Nos |
| Esophagus | | Hemorrhage |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| Lung | | Alveolar Macrophages |
| | | Congestion, Nos |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| | | Inflammation, Chronic Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Diffuse |
| | | Hyperplasia, Interstitial Cell |
| Thymus | | Involution, Nos |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_031

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | Tubule | Necrosis, Focal |
| | | Nephropathy |
| Liver | Bile Duct | Hyperplasia, Focal |
| Lymph node | Renal Lymph Node | Cyst, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Tail | Keratoacanthoma |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Back | Fibrosarcoma |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_032

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| | Cortex Nos | Hemorrhage |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Hemorrhage |
| | | Mineralization |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| | | Hemorrhage |
| Lung | | Atrophy, Focal |
| Pancreas | Acinus | Atrophy, Nos |
| Preputial gland | | Hyperplasia, Epithelial |
| Prostate | | Edema, Nos |
| Stomach | Forestomach | Hemorrhage |
| | Forestomach | Inflammation, Chronic Focal |
| | Forestomach | Hyperplasia, Interstitial Cell |
| Testis | | Interstitial-Cell Tumor |
| | | Inflammation, Acute Focal |
| Trachea | Gland | Leukemia, Mononuclear Cell |
| Unspecified | Multiple Organs Nos | Necrosis, Fat |
| | Abdominal Cavity | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_033

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|----------------------------------|
| Adrenal gland | Cortex Nos | Necrosis, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone | | Necrosis, Focal |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Eosinophilic |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Tail | Hyperkeratosis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_034

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Carcinoma, Nos |
| | Medulla | Hyperplasia, Nos |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| | Ventricle | Thrombosis, Nos |
| Kidney | | Infarct, Nos |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Hyperplasia, Epithelial |
| | Forestomach | Inflammation, Acute Focal |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| | | Mineralization |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_035

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Cytoplasmic Vacuolization |
| Bone marrow | | Fibrosis |
| Brain | | Hemorrhage |
| Esophagus | Lumen | Inflammation, Acute |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Intermedia | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Tail | Inflammation, Acute Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Trachea | Submucosa | Inflammation, Chronic Focal |
| Unspecified | Back | Fibroma |
| | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_036

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|--------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Bone marrow | | Hyperplasia, Granulocytic |
| Epididymis | | Degeneration, Nos |
| Heart | Atrium | Dilatation, Nos |
| | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| | | Neurilemoma, Metastatic |
| | | Peliosis Hepatis |
| Lung | | Neurilemoma, Metastatic |
| Pancreas | Islets | Hyperplasia, Focal |
| Pituitary gland | Anterior Pituitary | Adenoma, Nos |
| Preputial gland | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | | Neurilemoma, Malignant |
| | Mediastinum Nos | Periarteritis |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_037

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos
Tubule

Cytoplasmic Vacuolization
Necrosis, Focal
Nephropathy
Pigmentation, Nos

Liver

Hepatocytes
Bile Duct

Cytoplasmic Vacuolization
Hyperplasia, Focal
Atrophy, Nos

Preputial gland

Skin

Tail

Ulcer, Nos

Stomach

Forestomach
Forestomach
Forestomach

Edema, Nos
Hyperplasia, Epithelial
Inflammation, Chronic Focal
Atrophy, Focal
Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

Testis

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_038

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------|-----------------------------|
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | | Congestion, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| Oral mucosa | Palate Nos | Squamous Cell Carcinoma |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_039

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| | Medulla | Pheochromocytoma |
| Eye | Nasolacrimal Duct | Inflammation, Acute Focal |
| Heart | Atrium | Thrombosis, Nos |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| Pancreas | Acinus | Atrophy, Focal |
| | Acinus | Cytoplasmic Change, Basophilic |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Adenoma, Nos |
| | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Edema, Nos |
| | Forestomach | Ulcer, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_040

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Hemorrhage |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Hematopoiesis |
| | Bile Duct | Hyperplasia, Focal |
| | | Necrosis, Focal |
| Lung | | Hemorrhage |
| Pancreas | Acinus | Atrophy, Focal |
| | Islets | Islet-Cell Carcinoma |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_041

TRT#: 4

SEX: Male

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 |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | | Hernia, Nos |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hemorrhage |
| Mammary gland | | Lactation |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_042

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | Hepatocytes | Cytoplasmic Vacuolization |
| | Bile Duct | Hyperplasia, Focal |
| Mammary gland | | Hyperplasia, Cystic |
| Nasal cavity | | Foreign Body, Nos |
| | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| | Islets | Islet-Cell Adenoma |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Stomach | Forestomach | Edema, Nos |
| | Forestomach | Hyperplasia, Epithelial |
| | Forestomach | Ulcer, Nos |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_043

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|-----------------------------|
| Adrenal gland | Medulla | Pheochromocytoma, Malignant |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Bone marrow | | Hyperplasia, Reticulum Cell |
| Eye | Retina | Atrophy, Focal |
| | Sclera | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| | | Pigmentation, Nos |
| Liver | | Abnormal Curvature |
| | Bile Duct | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Atrophy, Nos |
| Skeletal muscle | | Hemorrhage |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_044

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Heart | | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Nephropathy |
| Liver | | Congestion, Nos |
| | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Congestion, Nos |
| | | Metaplasia, Osseous |
| Lymph node | Thoracic Lymph Node | Hyperplasia, Plasma Cell |
| Mammary gland | | Hyperplasia, Nos |
| Pituitary gland | Anterior Pituitary | Cyst, Nos |
| | Anterior Pituitary | Hyperplasia, Focal |
| Preputial gland | | Atrophy, Nos |
| | | Carcinoma, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Tail | Keratoacanthoma |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Carcinoma |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_045

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Nos |
| Bone | | Fibrous Osteodystrophy |
| Brain | Meninges | Hyperplasia, Focal |
| Epididymis | | Degeneration, Nos |
| Heart | Atrium | Thrombosis, Nos |
| Kidney | Pelvis | Hyperplasia, Epithelial |
| | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Plasma Cell |
| Nasal cavity | | Inflammation, Acute Focal |
| Pancreas | | Inflammation, Chronic Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos |
| | | Carcinoma, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_046

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Medulla

Hyperplasia, Nos

Cortex Nos

Necrosis, Focal

Heart

Inflammation, Chronic Focal

Kidney

Nephropathy

Liver

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Nasal cavity

Infection, Fungal

Inflammation, Acute Focal

Pancreas

Acinus

Atrophy, Focal

Preputial gland

Atrophy, Nos

Seminal vesicle

Atrophy, Nos

Skin

Tail

Hyperkeratosis

Testis

Atrophy, Diffuse

Atrophy, Focal

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_047

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Adenoma, Nos |
| | Cortex Nos | Angiectasis |
| | Cortex Nos | Hyperplasia, Focal |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Hemorrhage |
| | | Pigmentation, Nos |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_048

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma, Malignant |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Alveolar/Bronchiolar Adenoma |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Intermedia | Cyst, Nos |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Spleen | | Atrophy, Focal |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_049

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Epididymis | | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| Pancreas | Acinus | Atrophy, Focal |
| Pituitary gland | Anterior Pituitary | Hyperplasia, Focal |
| Skin | Scrotum | Hyperkeratosis |
| | | Keratoacanthoma |
| Testis | Back | Sebaceous Adenoma |
| | | Atrophy, Diffuse |
| | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | Hyperplasia, C Cell |
| Tongue | | Hemorrhage |
| Unspecified | Multiple Organs Nos | Leukemia, Mononuclear Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55925

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Hydrochlorothiazide

CAS Number: 58-93-5

Date Report Requested: 10/26/2014

Time Report Requested: 09:57:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_050

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Pheochromocytoma |
| Blood vessel | Pulmonary Artery Nos | Mineralization |
| Brain | | Granular-Cell Tumor, Benign |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Nephropathy |
| Liver | Hepatocytes | Cytoplasmic Change, Basophilic |
| | Bile Duct | Hyperplasia, Focal |
| Lung | | Inflammation, Chronic Focal |
| Lymph node | Mesenteric Lymph Node | Edema, Nos |
| Nasal cavity | | Infection, Fungal |
| | | Inflammation, Acute Focal |
| Pancreas | Acinus | Atrophy, Focal |
| Preputial gland | | Atrophy, Nos |
| Seminal vesicle | | Atrophy, Nos |
| Skin | Back | Basal-Cell Tumor |
| Testis | | Atrophy, Focal |
| | | Interstitial-Cell Tumor |
| Thymus | | Involution, Nos |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE