

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride

CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

C Number: C55061

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_001

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hematopoiesis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung	Alveoli	Hemorrhage
		Hyperplasia, Alveolar Epithelium
		Pneumonia, Interstitial Chronic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Preputial gland		Abscess, Nos
		Dilatation, Ducts
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_002

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hemorrhage
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Preputial gland		Adenoma, Nos
		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_003

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Dilatation, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Lung		Hyperplasia, Alveolar Epithelium
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
		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: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_004

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Blood vessel	Central Veins	Thrombus, Mural
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial Nephropathy
Liver	Hepatocytes	Angiectasis Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Hyperplasia, Epithelial Inflammation, Active Chronic
Testis	Tubule	Atrophy, Focal
Thymus		Inflammation, Granulomatous Focal
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_005

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Cyst, Embryonal Duct
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_006

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
Mammary gland		Hyperplasia, Cystic
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_007

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung

Congestion, Acute

Pancreas

Edema, Nos

Hemorrhage

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:38

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_008

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Granulocytic
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Intestine Small	Jejunum	Fibrosarcoma
Kidney		Nephropathy
Liver	Centrilobular	Necrosis, Focal
Pancreas	Acinus	Atrophy, Focal
Penis	Prepuce Nos	Inflammation, Chronic Suppurative
Preputial gland		Inflammation, Active Chronic
Spleen	Red Pulp	Hematopoiesis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
		Lymphocytic Inflammatory Infiltrate

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_009

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal Neoplastic Nodule
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Testis		Interstitial-Cell Tumor
Thymus		Hemorrhage
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_010

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Brain

Cerebrum

Atrophy, Pressure

Ventricle

Hydrocephalus, Nos

Myocardium Nos

Degeneration, Nos

Heart

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Periportal

Cytoplasmic Vacuolization

Lymph node

Thymic Lymph Node

Lymphangiectasis

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Inflammation, Active Chronic

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_011

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Brain	Fourth Ventricle Nos	Ependymoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Adenocarcinoma, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
	Centrilobular	Necrosis, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Cyst, Nos
		Inflammation, Active Chronic
Stomach	Glandular Stomach	Inflammation, Active Chronic
	Glandular Stomach	Ulcer, Acute
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_013

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
Lung		Congestion, Acute
Pituitary gland	Anterior Pituitary	Adenoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_014

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_015

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone marrow		Hypoplasia, Hematopoietic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
Lung		Congestion, Acute
Lymph node	Mesenteric Lymph Node	Depletion, Lymphoid
	Mesenteric Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Inflammation, Chronic Focal
Pancreas	Acinus	Atrophy, Focal
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_016

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Kidney		Nephropathy
Liver		Angiectasis
	Periportal	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Skin	Lip Nos	Cyst, Epidermal Inclusion
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_017

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Necrosis, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Cyst, Follicular Nos
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_018

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung

Prostate

Edema, Nos

Inflammation, Active Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_019

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Edema, Nos
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_020

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Alveolar Macrophages
		Fibrosis, Diffuse
	Alveoli	Hemorrhage
		Pneumonia, Interstitial Chronic
Pancreas	Acinus	Atrophy, Focal
Spleen	Red Pulp	Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_021

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Active Chronic
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_022

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Pneumonia, Interstitial Chronic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_023

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos Atrium	Degeneration, Nos Thrombus, Mural
Kidney		Nephropathy Sarcoma, Nos
Liver	Hepatocytes Bile Duct	Degeneration, Cystic Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Lymph node	Thymic Lymph Node	Hemorrhage
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen	Red Pulp	Hematopoiesis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_024

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Congestion, Nos
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_025

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
	Islets	Islet-Cell Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Groin	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_026

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Metamorphosis, Fatty Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Acute Focal
Seminal vesicle		Inflammation, Acute Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_027

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung	Alveoli	Hemorrhage
		Pneumonia, Interstitial Chronic
Lymph node	Mesenteric Lymph Node	Inflammation, Chronic Focal
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen	Red Pulp	Fibrosis, Focal
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Thorax	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_028

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Acute Focal
Testis		Hyperplasia, Interstitial Cell
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_029

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Bone	Femur	Fibrous Osteodystrophy
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pancreas	Acinus	Atrophy, Focal
		Dilatation, Ducts
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Fibrosis, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
	Glandular Stomach	Mineralization
Testis	Tubule	Atrophy, Diffuse
Thymus		Depletion, Lymphoid
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Penis	Prepuce Nos	Inflammation, Chronic Suppurative
Prostate		Inflammation, Active Chronic
Thymus		Depletion, Lymphoid
Thyroid		Cyst, Embryonal Duct
Urinary bladder		Inflammation, Acute Diffuse

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_031

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic Focal
Liver	Periportal	Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Cystic
Prostate		Inflammation, Chronic Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_032

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hemorrhage
	Cortex Nos	Hyperplasia, Focal
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_033

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Prostate		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Groin	Cyst, Hemorrhagic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_034

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Prostate		Inflammation, Chronic Focal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_035

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung

Congestion, Acute

Mammary gland

Edema, Nos

Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_036

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Cytoplasmic Vacuolization Hyperplasia, Focal
Bone marrow		Hyperplasia, Granulocytic
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
	Periportal Hepatocytes	Cytoplasmic Vacuolization Degeneration, Cystic
Lung		Pneumonia, Interstitial Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Hematopoiesis
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Sup.Panc-Duod.Artery	Hyperplasia, Focal
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Harderian gland	Hardarian Gland	Hyperplasia, Epithelial
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Cytoplasmic Change, Eosinophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Hemorrhagic
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Fibrosis, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Cyst, Follicular Nos
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_038

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hemorrhage
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Skin	Lower Leg	Trichoepithelioma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Leg	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_039

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
		Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		C-Cell Carcinoma, Metastatic
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Forestomach	Inflammation, Active Chronic
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_040

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Adenoma, Nos
		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Seminal vesicle		Retention Fluid
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_041

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Lymph node	Renal Lymph Node	Lymphangiectasis
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Preputial gland		Inflammation, Active Chronic
		Retention Fluid
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_042

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Edema, Nos
Lymph node	Pancreatic Lymph Node	Granuloma, Nos
	Renal Lymph Node	Hemorrhage
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Salivary gland	Salivary Seromucous Gland	Necrosis, Focal
Testis		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_043

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Eye

Retina

Atrophy, Focal

Kidney

Nephropathy

Liver

Angiectasis

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Lymph node

Thymic Lymph Node

Hemorrhage

Mammary gland

Hyperplasia, Cystic

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_044

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Kidney	Cortex	Cyst, Nos
		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Adenocarcinoma, Nos
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_045

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Periportal

Cytoplasmic Vacuolization

Bile Duct

Hyperplasia, Focal

Lung

Inflammation, Granulomatous Focal

Testis

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_046

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Edema, Nos
		Pneumonia, Interstitial Chronic
Pancreas	Islets	Hyperplasia, Focal
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_047

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Medulla

Pheochromocytoma

Kidney

Nephropathy

Liver

Angiectasis

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_048

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_049

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Acute Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_050

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Eosinophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Hyperplasia, Epithelial
		Inflammation, Active Chronic
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Chronic Focal
Spleen	Red Pulp	Fibrosis, Focal
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Cytoplasmic Change, Eosinophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
	Centrilobular	Necrosis, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Cytoplasmic Change, Eosinophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Skin	Thorax	Keratoacanthoma
Testis		Hyperplasia, Interstitial Cell
	Tunica Vaginalis	Hyperplasia, Mesothelial
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Pancreas	Acinus	Atrophy, Focal
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Hyperplasia, Focal
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Brain	Ventricle	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Edema, Nos
	Alveoli	Hemorrhage
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Intermedia	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
	Tubule	Mineralization
Unspecified	Abdomen	Inflammation, Chronic Focal
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Brain	Cerebrum	Atrophy, Pressure
	Ventricle	Hydrocephalus, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Aspiration, Foreign Body
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Chronic Focal
Testis	Tubule	Atrophy, Focal
		Hyperplasia, Interstitial Cell
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Cytoplasmic Change, Basophilic
		Degeneration, Cystic
		Hematopoiesis
	Bile Duct	Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Infarct, Healed
		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Lung	Alveoli	Hemorrhage
		Inflammation, Granulomatous Focal
		Pneumonia, Interstitial Chronic
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pancreas	Acinus	Atrophy, Focal
Skin	Abdomen	Basal-Cell Tumor
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Brain	Cerebellum Nos	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Pancreas	Islets	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Stomach	Submucosa	Inflammation, Active Chronic
	Forestomach	Ulcer, Acute
	Glandular Stomach	Ulcer, Acute
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Inflammation, Active Chronic
		Ulcer, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Ventricle	Hydrocephalus, Nos
	Meninges	Inflammation, Acute Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Abdomen	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Focal Cellular Change Hyperplasia, Focal
Heart	Cortex Nos	Metamorphosis, Fatty
Kidney	Myocardium Nos	Degeneration, Nos
Liver		Nephropathy
Mammary gland	Bile Duct	Hyperplasia, Focal
Testis		Hyperplasia, Cystic
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus	Tubule	Mineralization
Unspecified	Multiple Organs Nos	Depletion, Lymphoid
		Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Intestine Small	Mesentery Nos	Inflammation, Active Chronic
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Spleen	Red Pulp	Fibrosis, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Cyst, Follicular Nos
		Hyperplasia, Follicular Cell
Unspecified	Groin	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Atrium	Thrombus, Mural
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Brain	Cerebrum	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Periarteritis
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas		Periarteritis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Mammary gland		Hyperplasia, Cystic
Testis		Hyperplasia, Interstitial Cell
Unspecified	Ear	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
Thymus		Depletion, Lymphoid
Unspecified	Abdomen	Fibrous Histiocytoma, Malignant
	Multiple Organs Nos	Fibrous Histiocytoma, Metastatic
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Hyperplasia, Focal
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Lung

Hemorrhage

Mammary gland

Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Brain	Cerebrum	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
Thymus		Hemorrhage
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
Lung		Pneumonia, Interstitial Chronic
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Preputial gland		Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Angiectasis

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Mammary gland

Hyperplasia, Cystic

Parathyroid gland

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

Thymus

Depletion, Lymphoid

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Cortex

Cyst, Multiple

Liver

Nephropathy

Clear-Cell Change

Lymph node

Mandibular Lymph Node

Neoplastic Nodule

Seminal vesicle

Lymphangiectasis

Hyperplasia, Epithelial

Testis

Tubule

Degeneration, Nos

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Brain	Cerebrum	Hemorrhage
Intestine Small	Mesentery Nos	Inflammation, Active Chronic
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Pancreas	Acinus	Atrophy, Focal
Testis		Hyperplasia, Interstitial Cell
Thymus		Depletion, Lymphoid
Unspecified	Thorax	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Brain	Cerebrum	Hemorrhage
Kidney		Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Parathyroid gland		Adenoma, Nos
Spleen	Red Pulp	Fibrosis, Multifocal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Capsule

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Skin

Groin

Cyst, Epidermal Inclusion

Spleen

Red Pulp

Fibrosis, Multifocal

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Preputial gland		Adenocarcinoma, Nos
Prostate		Inflammation, Chronic Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Mammary gland		Hyperplasia, Cystic
Skin	Abdomen	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Pneumonia, Interstitial Chronic
Mammary gland		Hyperplasia, Cystic
Unspecified	Mediastinum Nos	Foreign Body, Reaction

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Femur	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Parathyroid gland		Hyperplasia, Nos
Skin	Back	Sebaceous Adenoma
Spleen	Red Pulp	Hematopoiesis
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Mineralization

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Necrosis, Nos Nephropathy
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Prostate		Hemorrhage Inflammation, Acute Focal
Seminal vesicle		Hemorrhage Inflammation, Acute Diffuse
Stomach	Glandular Stomach	Mineralization
Testis		Hyperplasia, Interstitial Cell
Thyroid		Cyst, Follicular Nos
Urinary bladder		Inflammation, Acute Diffuse

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis	Tubule	Mineralization
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Retention Fluid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Islets	Islet-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Salivary gland		Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Liver
Pituitary gland
Prostate
Testis
Thymus
Thyroid
Unspecified
Urinary bladder

Cortex Nos
Myocardium Nos

Bile Duct
Anterior Pituitary

Multiple Organs Nos

Metamorphosis, Fatty
Degeneration, Nos
Nephropathy
Hyperplasia, Focal
Adenoma, Nos
Inflammation, Active Chronic
Interstitial-Cell Tumor
Depletion, Lymphoid
Hyperplasia, C Cell
Leukemia, Mononuclear Cell
Hyperplasia, Epithelial
Inflammation, Acute Focal
Ulcer, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Skeletal muscle		Inflammation, Acute/Chronic
Spleen		Adhesion, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Bone	Femur	Fibrous Osteodystrophy
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Multiple
		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lymph node	Renal Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Fibrosis, Multifocal
Stomach	Glandular Stomach	Mineralization
Testis	Tubule	Degeneration, Nos
		Hyperplasia, Interstitial Cell
Thymus		Depletion, Lymphoid
Thyroid		Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla Cortex Nos	Hyperplasia, Focal Hyperplasia, Focal Metamorphosis, Fatty
Bone	Femur	Fibrous Osteodystrophy
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa Tubule	Hyperplasia, Epithelial Mineralization Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic Degeneration, Cystic
Lung	Alveoli	Mineralization
Lymph node	Mesenteric Lymph Node	Plasmacytosis
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Stomach	Glandular Stomach Glandular Stomach Glandular Stomach	Inflammation, Active Chronic Mineralization Ulcer, Acute
Testis		Hyperplasia, Interstitial Cell
Thymus		Depletion, Lymphoid
Urinary bladder		Hyperplasia, Epithelial Inflammation, Active Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Bone	Femur	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Fibrosarcoma
	Colon	Ulcer, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Parathyroid gland		Hyperplasia, Nos
Preputial gland		Abscess, Nos
Stomach	Glandular Stomach	Mineralization
Testis		Interstitial-Cell Tumor
Unspecified	Diaphragm Nos	Fibrosarcoma, Metastatic
	Mediastinum Nos	Fibrosarcoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Esophagus

Periesophageal Tissue

Inflammation, Acute

Stomach

Forestomach

Inflammation, Acute Focal

Trachea

Peritracheal Tissue

Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_046

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone	Femur	Fibrous Osteodystrophy
Brain	Cerebrum	Necrosis, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
Liver		Nephropathy
		Angiectasis
		Cytoplasmic Change, Basophilic
	Centrilobular	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
Lung		Inflammation, Granulomatous Focal
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
Testis		Hyperplasia, Interstitial Cell
Thymus		Interstitial-Cell Tumor
		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Femur	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Periarteritis
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Renal Lymph Node	Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Parathyroid gland		Hyperplasia, Nos
Stomach	Glandular Stomach	Mineralization
Testis		Hyperplasia, Interstitial Cell
		Periarteritis
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone	Femur	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Chronic Focal
Spleen		Depletion, Lymphoid
	Red Pulp	Hematopoiesis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Skin	Back	Keratoacanthoma
	Thorax	Trichoepithelioma
Spleen	Red Pulp	Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Hyperplasia, Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Lymph node	Thymic Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_001

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Plasmacytosis
Pancreas	Acinus	Atrophy, Focal
	Islets	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_002

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Liver

Medulla

Pheochromocytoma
Nephropathy
Angiectasis
Cytoplasmic Change, Basophilic
Degeneration, Cystic
Hyperplasia, Focal
Inflammation, Acute Focal
Interstitial-Cell Tumor
Depletion, Lymphoid
Hyperplasia, C Cell

Hepatocytes
Bile Duct

Prostate
Testis
Thymus
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_003

TRT#: 3
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_004

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Cytoplasmic Change, Basophilic
Lung		Degeneration, Cystic
Mammary gland		Pneumonia, Interstitial Chronic
		Fibroadenoma
Pancreas	Acinus	Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Atrophy, Focal
Testis		Hyperplasia, Focal
Thymus		Interstitial-Cell Tumor
Thyroid		Depletion, Lymphoid
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Pelvis/Mucosa

Hyperplasia, Epithelial

Nephropathy

Liver

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Testis

Interstitial-Cell Tumor

Thymus

Periarteritis

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_006

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
	Islets	Islet-Cell Adenoma
Prostate		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_007

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Nephropathy
		Sarcoma, Nos
Liver		Angiectasis
Lung		Pneumonia, Interstitial Chronic
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_008

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Pneumonia, Interstitial Chronic
Mammary gland		Hyperplasia, Cystic
Pancreas		Acinar-Cell Adenoma
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_009

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos Atrium	Degeneration, Nos Thrombus, Mural
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas		Atrophy, Diffuse
Prostate	Acinus	Inflammation, Chronic Focal
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_010

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Lymph node	Axillary Lymph Node	Inflammation, Acute Focal
Pancreas	Islets	Islet-Cell Adenoma
Spleen	Red Pulp	Hematopoiesis
Testis		Hyperplasia, Interstitial Cell
Unspecified	Arm Nos	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011

TRT#: 3
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Chest	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
Lung		Pneumonia, Interstitial Chronic
Lymph node	Mediastinal Lymph Node	Angiectasis
	Mediastinal Lymph Node	Inflammation, Granulomatous
Mammary gland		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_013

TRT#: 3
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_014

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Cortex Nos

Metamorphosis, Fatty

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Pelvis/Mucosa

Hyperplasia, Epithelial

Mammary gland

Nephropathy

Testis

Cytoplasmic Change, Basophilic

Thymus

Hyperplasia, Cystic

Thyroid

Interstitial-Cell Tumor

Depletion, Lymphoid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_015

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Angiectasis
		Clear-Cell Change
		Cytoplasmic Change, Basophilic
Lung		Edema, Nos
Lymph node	Mesenteric Lymph Node	Granuloma, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland
Heart
Kidney
Liver

Harderian Gland
Myocardium Nos

Inflammation, Acute Focal
Degeneration, Nos
Nephropathy
Angiectasis
Cytoplasmic Change, Basophilic
Neoplastic Nodule
Pneumonia, Interstitial Chronic
Hyperplasia, Cystic
Atrophy, Focal
Adenoma, Nos
Interstitial-Cell Tumor
Depletion, Lymphoid
Hyperplasia, C Cell

Lung
Mammary gland
Pancreas
Pituitary gland
Testis
Thymus
Thyroid

Acinus
Anterior Pituitary

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_017

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Cyst, Hemorrhagic
	Medulla	Hyperplasia, Focal
Bone	Femur	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lymph node		Hemorrhage
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Glandular Stomach	Mineralization
	Forestomach	Ulcer, Acute
Testis	Tubule	Degeneration, Nos
		Periarteritis
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone	Cranial And Facial Bones	Osteoma
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Pancreas	Acinus	Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_019

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas		Focal Cellular Change
	Acinus	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Cyst, Follicular Nos
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone	Femur	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Angiectasis
	Bile Duct	Hyperplasia, Focal
Parathyroid gland		Hyperplasia, Nos
Stomach	Glandular Stomach	Necrosis, Focal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_021

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Chronic Focal
Lung		Pneumonia, Interstitial Chronic
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis	Tunica Albuginea	Inflammation, Chronic Diffuse
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_022

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Acute Diffuse
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
	Centrilobular	Necrosis, Focal
Lung		Aspiration, Foreign Body
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Necrosis, Hemorrhagic
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Hemosiderosis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Urinary bladder		Inflammation, Acute Diffuse

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_023

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos Atrium	Degeneration, Nos Thrombus, Mural
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial Nephropathy
Liver	Bile Duct	Angiectasis Hyperplasia, Focal
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Chronic Focal
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_024

TRT#: 3

DOSE: 0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Lung		C-Cell Carcinoma, Metastatic
Lymph node	Cervical Lymph Node Nos	C-Cell Carcinoma, Metastatic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_025

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Intestine Small	Jejunum	Ulcer, Chronic
Liver		Angiectasis
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_026

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_027

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis Cytoplasmic Change, Basophilic
Pituitary gland	Bile Duct Anterior Pituitary	Hyperplasia, Focal Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_028

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Chronic Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_029

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_030

TRT#: 3

DOSE: 0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_031

TRT#: 3
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Blood vessel	Hepatic Vein	Thrombus, Mural
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_032

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_033

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
	Tubule	Necrosis, Focal
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_034

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone	Femur	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Inflammation, Acute Diffuse
		Nephropathy
	Pelvis	Transitional-Cell Carcinoma
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Lung		Transitional-Cell Carcinoma, Metastatic
Lymph node	Mesenteric Lymph Node	Granuloma, Nos
	Mesenteric Lymph Node	Hemorrhage
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen	Red Pulp	Fibrosis, Focal
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Acute Diffuse
Testis		Degeneration, Nos
Thyroid		Hyperplasia, C Cell
Urinary bladder		Inflammation, Acute Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_035

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Atrium	Thrombus, Mural
Kidney	Cortex	Necrosis, Focal Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Skin	Hip	Papilloma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_036

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
		Dilatation, Ducts
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Trachea	Peritracheal Tissue	Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_037

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Thrombosis, Nos
Brain		Astrocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
		Pneumonia, Interstitial Chronic
Mammary gland		Hyperplasia, Cystic
Prostate		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_038

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_039

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Unspecified	Abdomen	Inflammation, Chronic Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_040

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Heart	Myocardium Nos Epicardium	Degeneration, Nos Inflammation, Acute Focal
Kidney		Nephropathy
Lung		Pneumonia, Interstitial Chronic
Prostate		Inflammation, Acute Focal
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Acute Diffuse
Unspecified	Mediastinum Nos	Inflammation, Acute Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_041

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Acute Focal
Lung		Aspiration, Foreign Body
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_042

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Metamorphosis, Fatty Pheochromocytoma
Bone	Femur	Fibrous Osteodystrophy
Heart	Myocardium Nos Atrium	Degeneration, Nos Thrombus, Mural
Intestine Large	Cecum, Colon	Inflammation, Acute Diffuse
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial Nephropathy
Liver	Hepatocytes Bile Duct	Angiectasis Degeneration, Cystic Hyperplasia, Focal
Lung	Mediastinal Lymph Node	Pneumonia, Interstitial Chronic Edema, Nos
Lymph node		
Mammary gland		Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Acute Diffuse
Unspecified	Multiple Organs Nos	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_043

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Angiectasis

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Mammary gland

Hyperplasia, Cystic

Testis

Interstitial-Cell Tumor

Thymus

Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_044

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Aspiration, Foreign Body
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_045

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Brain	Cerebrum	Hemorrhage
Kidney		Infarct, Acute
		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_046

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
	Cornea	Inflammation, Chronic Diffuse
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Mammary gland		Hyperplasia, Cystic
Skin	Back	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_047

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Brain

Cerebrum

Hemorrhage

Kidney

Cortex

Necrosis, Focal

Liver

Bile Duct

Hyperplasia, Focal

Lymph node

Mandibular Lymph Node

Plasmacytosis

Testis

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_048

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Liver
Prostate
Testis

Thyroid

Medulla
Myocardium Nos

Pheochromocytoma
Degeneration, Nos
Nephropathy
Cytoplasmic Change, Basophilic
Inflammation, Active Chronic
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
C-Cell Adenoma
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_049

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Fibrosis, Multifocal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55061

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride
CAS Number: 124-64-1

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:39

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_050

TRT#: 3
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Focal Cellular Change Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos Nephropathy
Kidney		Cytoplasmic Change, Basophilic
Liver		Atrophy, Focal
Pancreas	Acinus	Adenoma, Nos
Pituitary gland	Anterior Pituitary	Interstitial-Cell Tumor
Testis		Depletion, Lymphoid
Thymus		Hyperplasia, C Cell
Thyroid		

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****